

1 -Comp. Loc.: Control modules - Vehicle Front

1.1 Overview of Control Modules

1 - Structure-Borne Sound Control Module -J869-

- ☐ Component Location and Connectors
⇒ [S1.27 tructure-Borne Sound Control ModuleJ869 ", page 36](#)

2 - Fresh Air Blower Control Module -J126-

- ☐ Components: -V2-
- ☐ Component Location and Connectors
⇒ [F1.35 resh Air Blower Control ModuleJ126 ", page 53](#)

- Control module for emergency call module and communication unit -J949-

- ☐ Component Location and Connectors
⇒ [C1.42 ontrol module for emergency call module and communication unitJ949 ", page 74](#)

3 - Instrument Cluster Control Module -J285-

- ☐ Components: -G1-, -Y24-, -K1-, -K47-, -K261-, -K75-, -K104-, -K149-, -K262-
- ☐ Component Location and Connectors
⇒ [I1.29 nstrument Cluster Control ModuleJ285 ", page 39](#)

4 - Image Processing Control Module -J851-

- ☐ Component Location and Pin Connectors, left-hand drive ⇒ [page 5](#)

5 - Climatronic Control Module -J255-

- ☐ Components: -E94-, -E95-
- ☐ Component Location and Connectors ⇒ [C1.24 limatronic Control ModuleJ255 ", page 32](#)

- Tire Pressure Monitoring Control Module -J502-

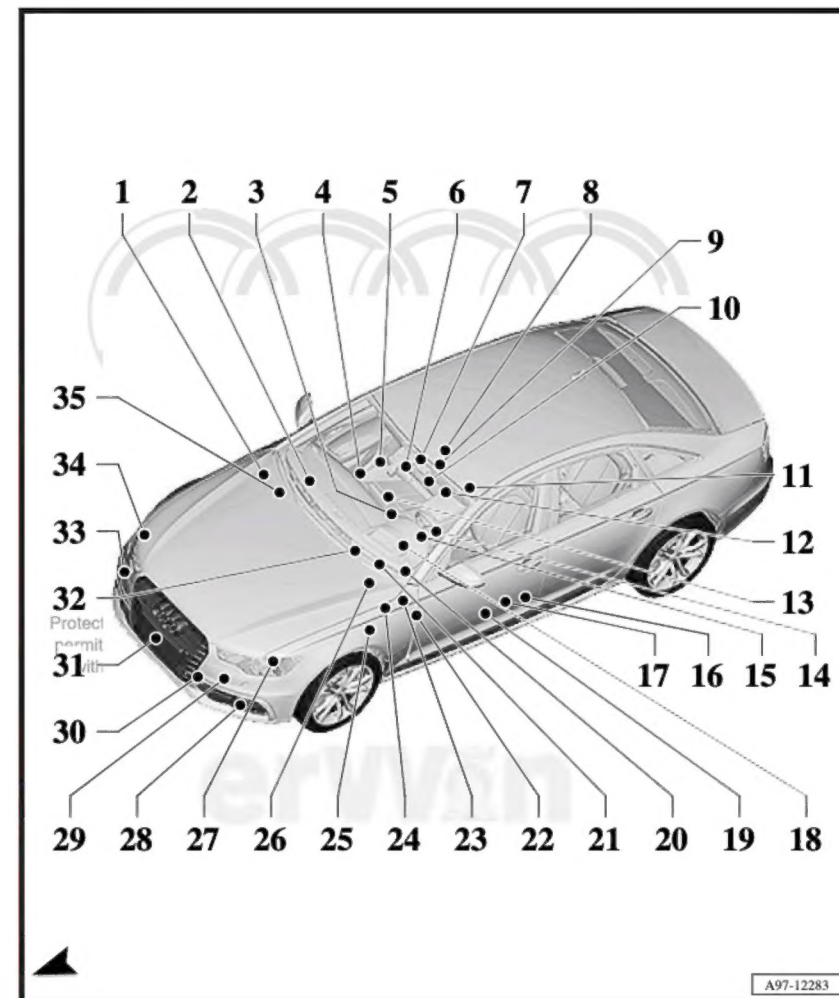
- ☐ for RS models only
- ☐ Component Location and Connectors
⇒ [T1.41 ire Pressure Monitoring Control ModuleJ502 ", page 72](#)

6 - Camera Control Module -J852-

- ☐ Component Location and Connectors ⇒ [C1.21 amera Control ModuleJ852 ", page 28](#)

7 - Power Sunroof Control Module -J245-

- ☐ Components: -V1-



- ❑ Component Location and Connectors ⇒ [P1.17 ower Sunroof Control ModuleJ245 ", page 23](#)

8 -

Roof Electronics Control Module -J528-

- ❑ Components: -E633-, -E634-, -E635-, -W1-, -W65-, -W66-, -E326-
- ❑ Component Location and Connectors ⇒ [R1.18 oof Electronics Control ModuleJ528 ", page 24](#)

9 -

Automatic Day/Night Interior Mirror -Y7-

- ❑ Components: -Y7-, -J852-, -J844-, -G355-, -G399-
- ❑ Component Location ⇒ [A1.28 utomatic Day/Night Interior Mirror Y7 with Light Recognition SensorG399 ", page 38](#)

10 - Rain/Light Recognition Sensor -G397-

- ❑ Component Location ⇒ [A1.28 utomatic Day/Night Interior Mirror Y7 with Light Recognition SensorG399 ", page 38](#)

11 - Airbag Control Module -J234-

- ❑ Component Location and Connectors ⇒ [A1.4 irbag Control ModuleJ234 ", page 6](#)

12 - Power Sunroof Control Module -J245-, panorama sunroof

- ❑ Components: -V-
- ❑ Component Location and Connectors ⇒ [P1.34 ower Sunroof Control ModuleJ245, panorama sunroof", page 51](#)

13 - Sensor Electronics Control Module -J849-

- ❑ Component Location and Connectors ⇒ [S1.5 ensor Electronics Control ModuleJ849 ", page 7](#)

- Control Module for Information Electronics 1 -J794-

- ❑ Component Location and Pin Connectors, through model year 2014, MMI Navigation plus (7T6)
⇒ [L1.38.1 ocation Control Module for Information Electronics 1J794, through model year 2014, MMI Navigation plus \(7T6\)", page 59](#)
- ❑ Component Location and Pin Connectors, from model year 2015, radio system (8DN, 8DP, 8DS)
⇒ [L1.38.2 ocation Control Module for Information Electronics 1J794, from model year 2015, radio system \(8DN, 8DP, 8DS\)", page 62](#)
- ❑ Component Location and Pin Connectors, from model year 2015, MMI Navigation plus (I8H)
⇒ [L1.38.3 ocation Control Module for Information Electronics 1J794, from model year 2015, MMI Navigation plus \(I8H\)", page 64](#)

14 -

Steering Column Electronic Systems Control Module -J527-

- ❑ Components: -E2-, -E5-, -E22-, -E45-, -F350-, -G85-, -E517-, -F138-
- ❑ Component Location and Connectors ⇒ [S1.20 teering Column Electronic Systems Control ModuleJ527 ", page 26](#)

15 -

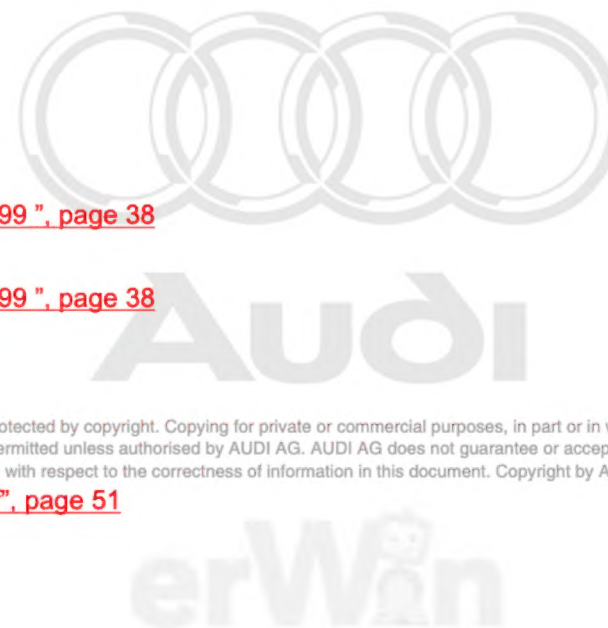
Active Steering Motor -V477-/Active steering safety lock actuator -F437-

- ❑ Component Location and Connectors ⇒ [A1.36 ctive Steering MotorV477/Active steering safety lock actuatorF437 ", page 55](#)

16 -

Left Front Seat Belt Tensioner Control Module -J854-/Right Front Seat Belt Tensioner Control Module -J855-

- ❑ Components: -N153-, -N154-, -G551-, -G552-
- ❑ Component Location and Connectors ⇒ [L1.19 eft Front Seat Belt Tensioner Control ModuleJ854/Right Front Seat Belt Tensioner Control ModuleJ855 ", page 25](#)



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- Memory Seat/Steering Column Adjustment Control Module -J136-

- ☐ Component Location and Connectors ⇒ [M1.39 Memory Seat/Steering Column Adjustment Control Module J136", page 67](#)

- Seat Occupied Recognition Control Module -J706-

- ☐ Component Location and Connectors ⇒ [S1.40 Seat Occupied Recognition Control Module J706", page 70](#)

17 - Night vision system control module -J853-

- ☐ Component Location and Connectors ⇒ [N1.6 Night vision system control module J853", page 8](#)

18 - Power Adjustable Steering Column Control Module -J866-

- ☐ Component Location and Connectors ⇒ [P1.30 Power Adjustable Steering Column Control Module J866", page 40](#)

19 - Active Steering Control Module -J792-

- ☐ Component Location and Pin Connectors, left-hand drive ⇒ [page 9](#)

20 - Electronic Steering Column Lock Control Module -J764-

- ☐ Component Location and Connectors ⇒ [E1.33 Electronic Steering Column Lock Control Module J764", page 50](#)

21 - Windshield Projection Head Up Display Control Module -J898-

- ☐ Component Location and Connectors ⇒ [W1.13 Windshield Projection Head Up Display Control Module J898", page 19](#)

22 - 16-Pin Connector -T16-, diagnostic connector

- ☐ Component Location and Pin Connectors, left-hand drive ⇒ [page 10](#)

23 - Headlamp range control module -J431-

- ☐ Headlamp Range/Cornering Lamp Control Module -J745- models with cornering lamp
- ☐ Component Location and Pin Connectors, left-hand drive ⇒ [page 12](#)

24 - Vehicle Electrical System Control Module -J519-

- ☐ Component Location and Pin Connectors, left-hand drive ⇒ [page 13](#)

25 - ABS Control Module -J104-

- ☐ with Tire Pressure Monitoring Control Module 2 -J793-
- ☐ Component Location and Connectors ⇒ [A1.14 ABS Control Module J104", page 20](#)

26 - Engine Control Module (ECM) -J623-

- ☐ Component Location and Pin Connectors, 154-pin, left-hand drive ⇒ [page 15](#)
- ☐ Component Location and Pin Connectors, 196-pin ⇒ [page 16](#)
- ☐ Component Location and Pin Connectors, 315-pin ⇒ [page 17](#)

27 - Front Headlights -MX1- /-MX2-

- ☐ Component Location gas discharge headlamp, through model year 2014
⇒ [m1.32.1 Modules on front headlamp MX1/ MX2, gas discharge Headlamp, through model year 2014", page 44](#)

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- ❑ Component Location and Pin Arrangements gas discharge headlamp, from model year 2015
⇒ [m1.32.2 odules on front headlamp MX1/MX2, gas discharge Headlamp, from model year 2015", page 45](#)
- ❑ Component Location LED Headlamp, through model year 2014
⇒ [m1.32.3 odules on front headlamp MX1/MX2, LED Headlamp, through model year 2014", page 46](#)
- ❑ Component Location and Pin Arrangements LED Headlamp, from model year 2015
⇒ [m1.32.4 odules on front headlamp MX1/MX2, LED Headlamp, from model year 2015", page 47](#)
- 28 - Distance Regulation Control Module 2 -J850-
 - ❑ Component Location and Connectors ⇒ [D1.16 istance Regulation Control Module 2J850 ", page 22](#)
- 29 -
Power Steering Control Module -J500-
 - ❑ Components: -V187-, -G269-
 - ❑ Component Location and Connectors ⇒ [P1.22 ower Steering Control ModuleJ500 ", page 29](#)
- 30 - Garage Door Opener Control Module -J530-
 - ❑ Component Location and Connectors ⇒ [G1.12 arage Door Opener Control ModuleJ530 ", page 18](#)
- 31 -
Coolant fan control module J293-/Coolant Fan Control (FC) Control Module 2 -J671-
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 - ❑ Components: -V7-, -V177-
 - ❑ Component Location and Connectors ⇒ [C1.31 oolant fan control moduleJ293/Coolant Fan Control \(FC\) Control Module 2J671 ", page 42](#)
- 32 -
Wiper Motor Control Module -J400-
 - ❑ Components: -V-
 - ❑ Component Location and Connectors ⇒ [W1.26 iper Motor Control ModuleJ400 ", page 34](#)
- 33 - Distance Regulation Control Module -J428-
 - ❑ Component Location and Connectors ⇒ [D1.15 istance Regulation Control ModuleJ428 ", page 21](#)
- 34 -
Auxiliary Heater Control Module -J364-
 - ❑ Components: -G587-, -G64-, -G18-, -Q9-, -V6-, -Z66-
 - ❑ Component Location and Connectors ⇒ [A1.23 uxiliary Heater Control ModuleJ364 ", page 30](#)
- Subframe Mount Control Module -J931-
 - ❑ Component Location and Connectors ⇒ [S1.25 ubframe Mount Control ModuleJ931 ", page 33](#)
- 35 - Catalytic converter heating control module 1 -J1021-
 - ❑ Component Location and Connectors ⇒ [C1.37 atalytic converter heating control module 1J1021 ", page 57](#)

1.2 Vehicle Front Modules Overview, High Voltage Vehicles (0K3) from KW 47/2016

1 - Thermal management control module -J1024-

- ❑ Component Location and Connectors
⇒ [T1.45 Thermal management control module J1024, from Week 47/2016", page 80](#)

2 - High voltage heater (PTC) control module -J848-

- ❑ Components: -Z115-
- ❑ Component Location and Connectors
⇒ [H1.43 High voltage heater \(PTC\) control module J848, from Week 47/2016", page 76](#)

3 - Electric Drive Power and Control Electronics -JX1-

- ❑ Components: -A19-, -A37-, -J841-
- ❑ Component Location and Connectors
⇒ [E1.47 Electric Drive Power and Control Electronics JX1, from Week 47/2016", page 83](#)

4 - High Voltage System Maintenance Connector -TW-

- ❑ Component Location and Connectors
⇒ [H1.46 High Voltage System Maintenance Connector TW, from Week 47/2016", page 81](#)

5 - A/C Compressor Control Module -J842-

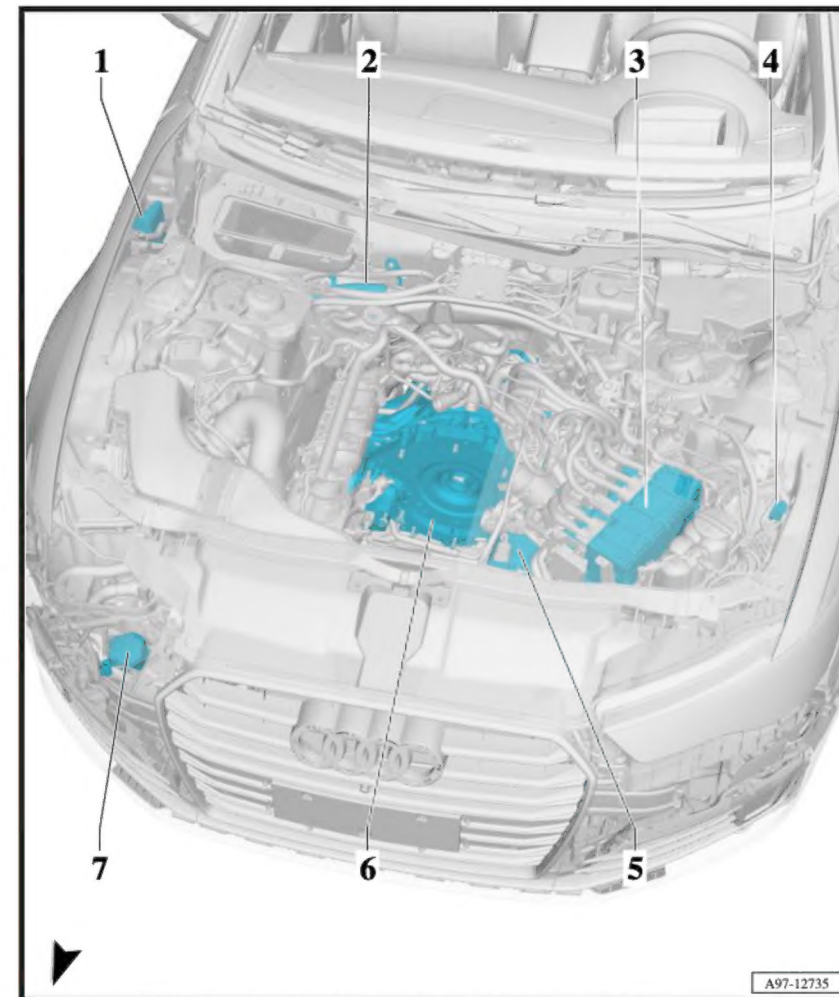
- ❑ Components: -V470-
- ❑ Component Location and Connectors
⇒ [A1.48 A/C Compressor Control Module J842, from Week 47/2016", page 84](#)

6 - Three-Phase Current Drive -VX54-

- ❑ Components: -V141-, -G712-, -G713-
- ❑ Component Location and Connectors
⇒ [T1.49 Three-Phase Current Drive VX54, from Week 47/2016", page 86](#)

7 - Brake Booster Vacuum Pump -V469-

- ❑ Component Location and Connectors
⇒ [B1.44 Brake Booster Vacuum Pump V469, from Week 47/2016", page 78](#)



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1.3 Image Processing Control Module -J851-

Component location, left-hand drive

Below front passenger's seat -A-.

A - Image Processing Control Module -J851-

B - 12-Pin Connector -T12i-, black

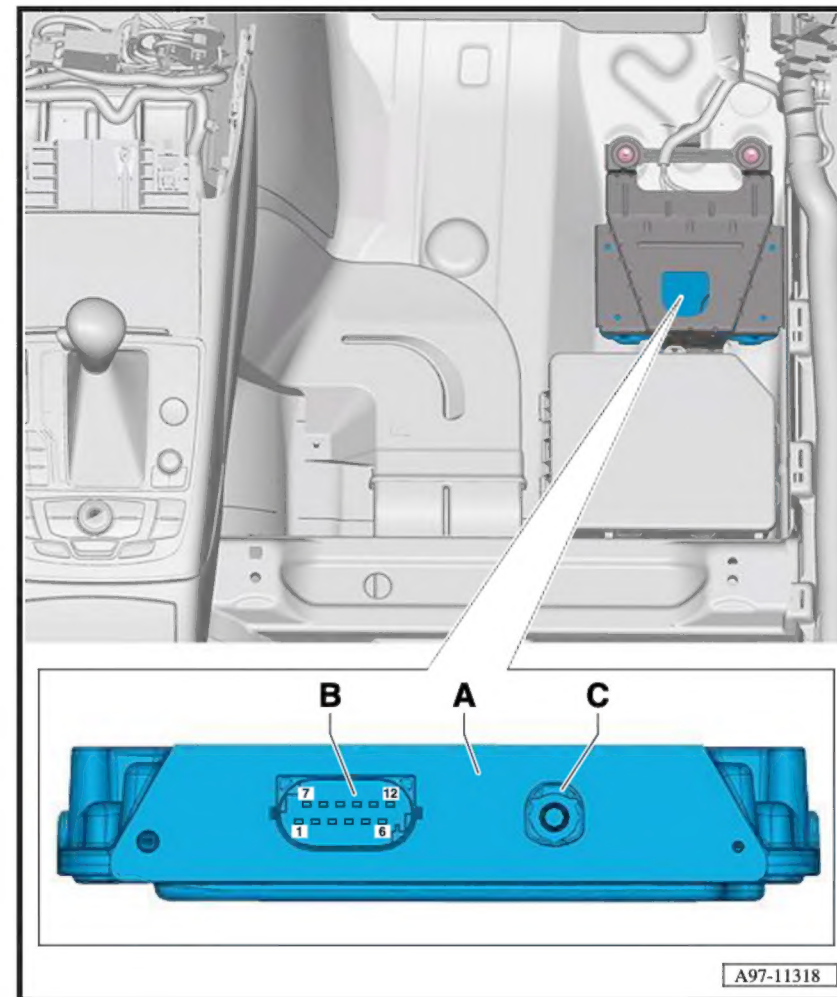
C - 5-Pin Connector -T5i-, black



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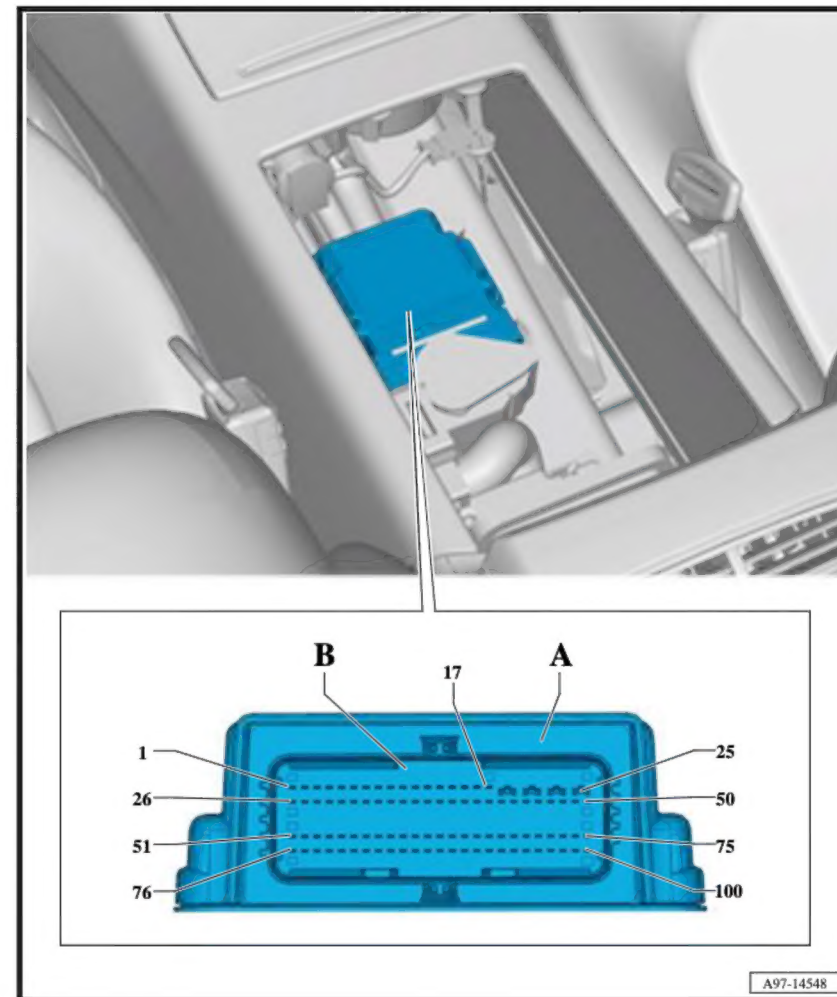
Back to overview ⇒ [o1.1 f Control Modules", page 1](#) .

1.4 Airbag Control Module -J234-

Below rear center console -A-.

A - Airbag Control Module -J234-

B - 100-Pin Connector -T100-, yellow



Back to overview [⇒ o1.1 f Control Modules", page 1](#).

1.5 Sensor Electronics Control Module -J849-

Below rear center console -A-.

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A - Sensor Electronics Control Module -J849-

B - 50-Pin Connector -T50-, ivory

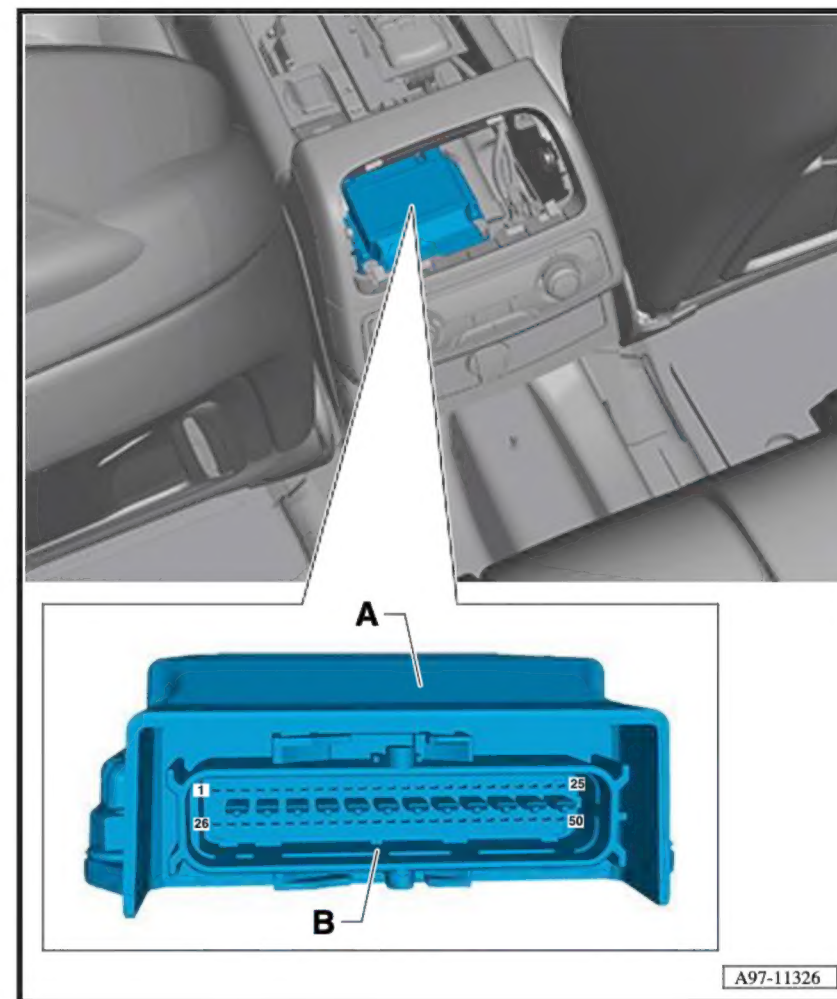


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1.6 Night vision system control module -J853-

Below driver's seat, left-hand drive.

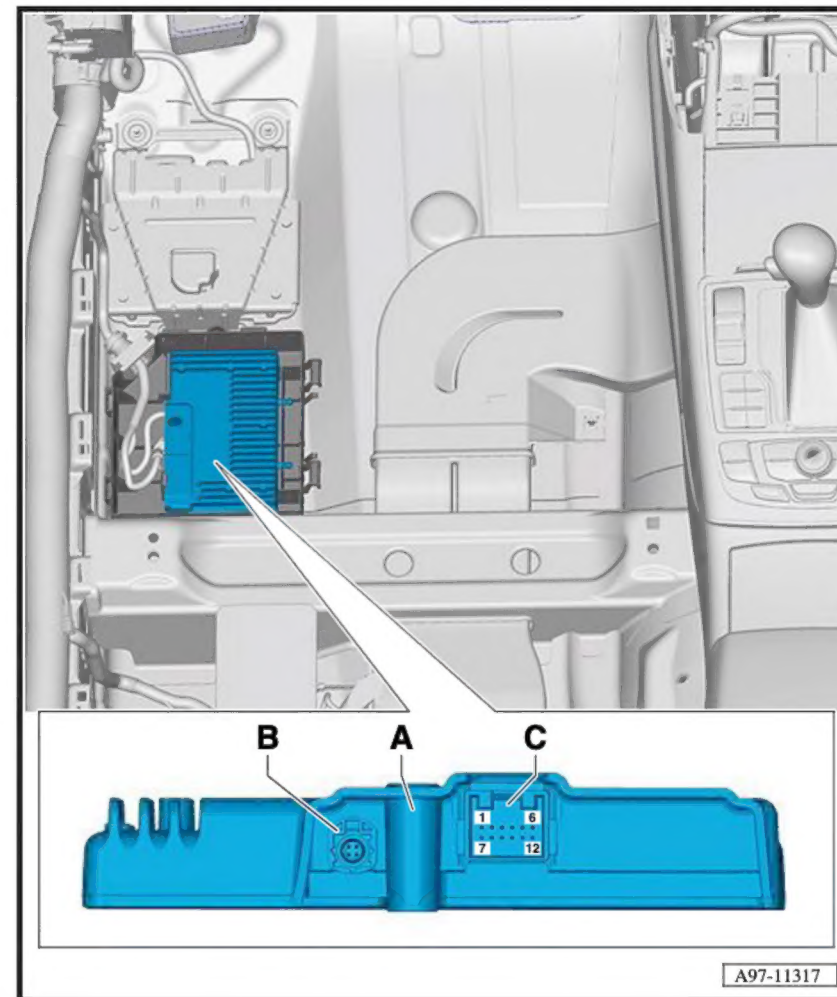


A - Night vision system control module -J853-

B - 5-Pin Connector -T5e-, black

C - 12-Pin Connector -T12b-, black

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1.7 Active Steering Control Module -J792-

Component location, left-hand drive

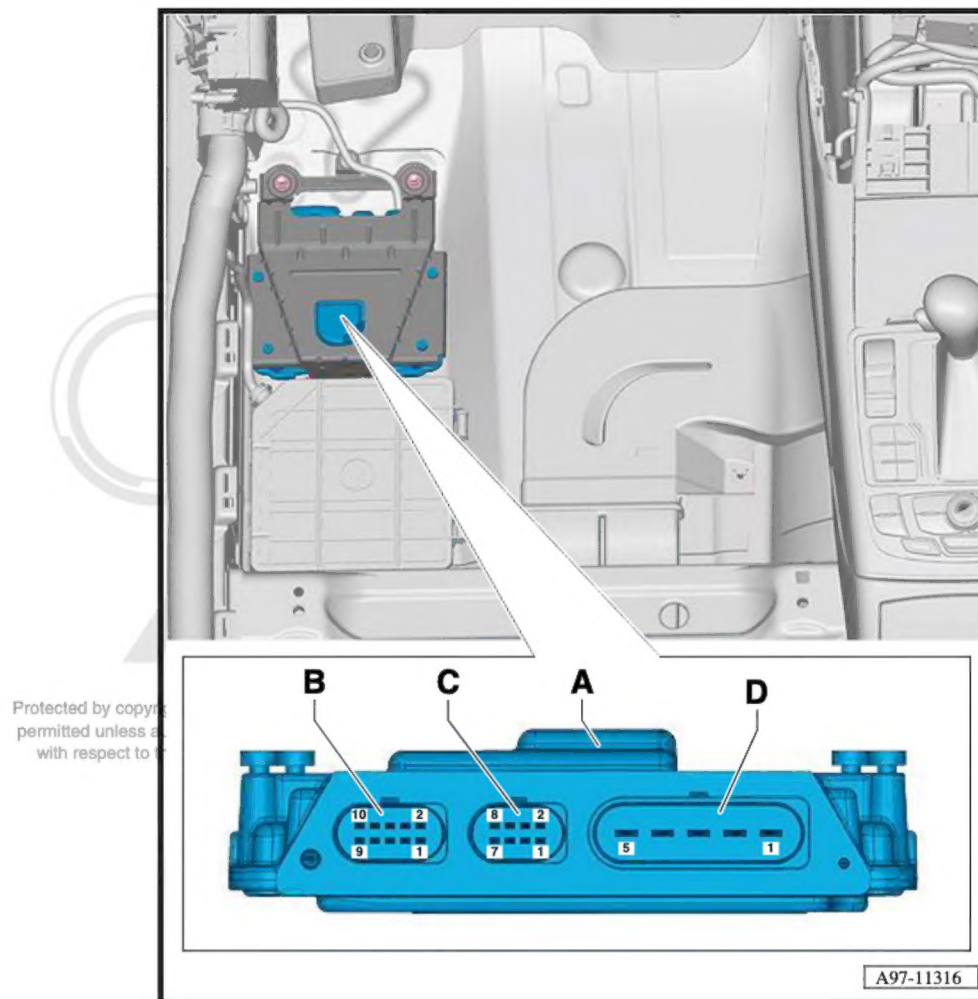
Below driver's seat.

A - Active Steering Control Module -J792-

B - 10-Pin Connector -T10c-, black

C - 8-Pin Connector -T8m-, black

D - 5-Pin Connector -T5k-, black, Active Steering Motor -V477-



Back to overview ⇒ [01.1 f Control Modules", page 1](#) .

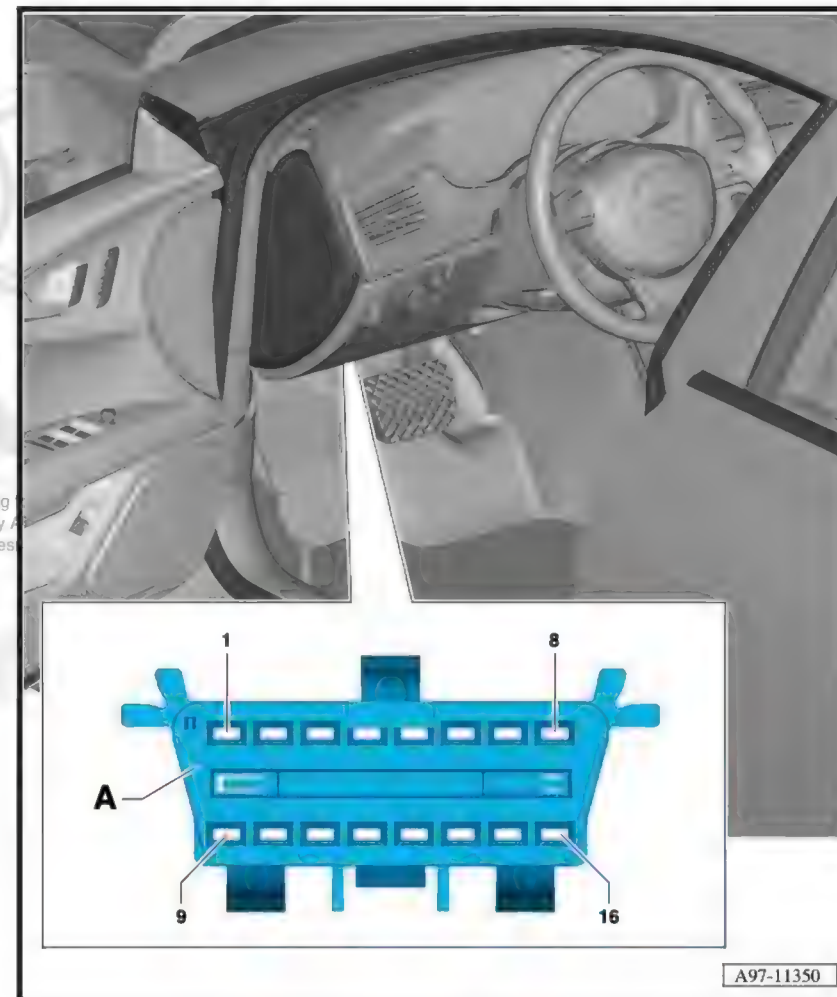
1.8 16-Pin Connector -T16- Diagnostic Connector

Component location, left-hand drive

In driver's left stowage compartment -A-.

A - 16-Pin Connector -T16-, black

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Pin Arrangements 16-Pin Connector -T16-, diagnostic connector

-T16- (A)	Designation		-T16- (A)	Designation
1	Terminal 15, from Comfort System Central Control Module -J393-		9	
2			10	
3			11	

-T16- (A)	Designation		-T16- (A)	Designation
4	Terminal 31, to (135) Ground Connection 2 (in instrument panel wiring harness) (199) Ground connection 3 (in instrument panel wiring harness) (45) Ground Connection (behind instrument panel, center)		12	
5	Terminal 31, to (135) Ground Connection 2 (in instrument panel wiring harness) (199) Ground connection 3 (in instrument panel wiring harness) (45) Ground Connection (behind instrument panel, center)		13	
6	CAN-Bus, High Data Bus On Board Diagnostic Interface -J533-		14	CAN-Bus, Low Data Bus On Board Diagnostic Interface -J533-
7			15	Airbag Control Module -J234-
8			16	Terminal 30, from Fuse Panel C -SC-

Back to overview ⇒ [o1.1 f Control Modules", page 1](#) .

1.9 Headlamp range control module -J431-

Headlamp Range/Cornering Lamp Control Module -J745-, models with cornering lamp

Component location, left-hand drive

Behind driver's left stowage compartment.

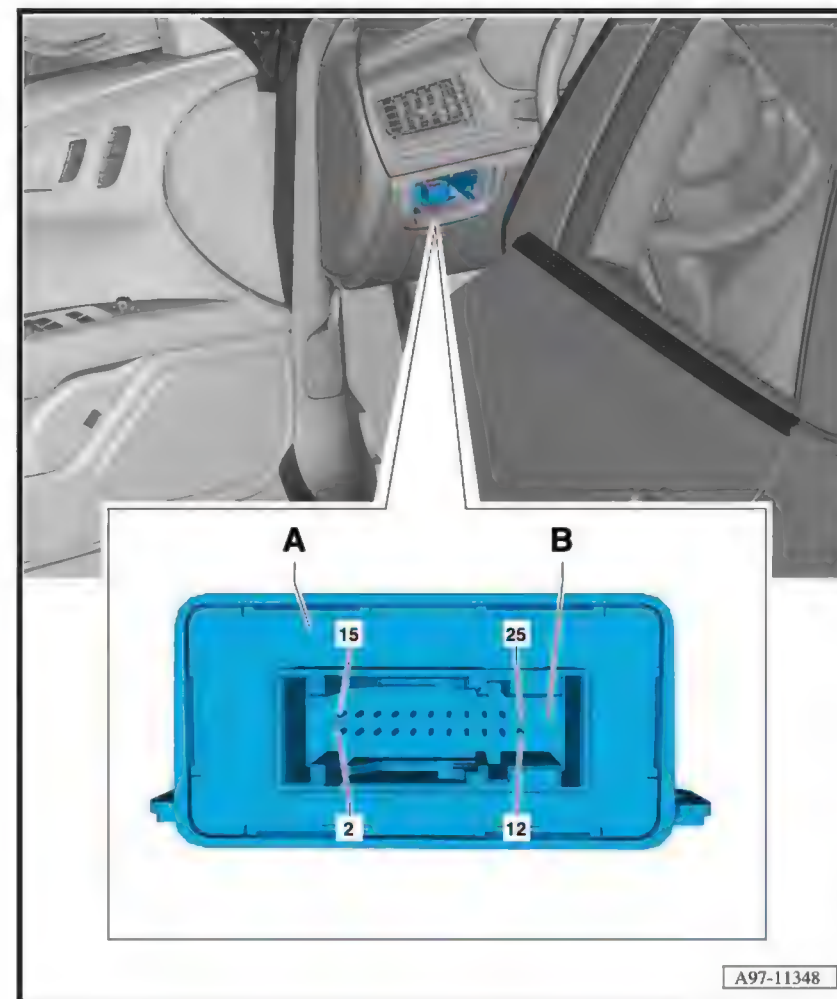
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A - Headlamp range control module -J431-

A - Headlamp Range/Cornering Lamp Control Module -J745-

□ models with cornering lamp

B - 26-Pin Connector -T26a-, black



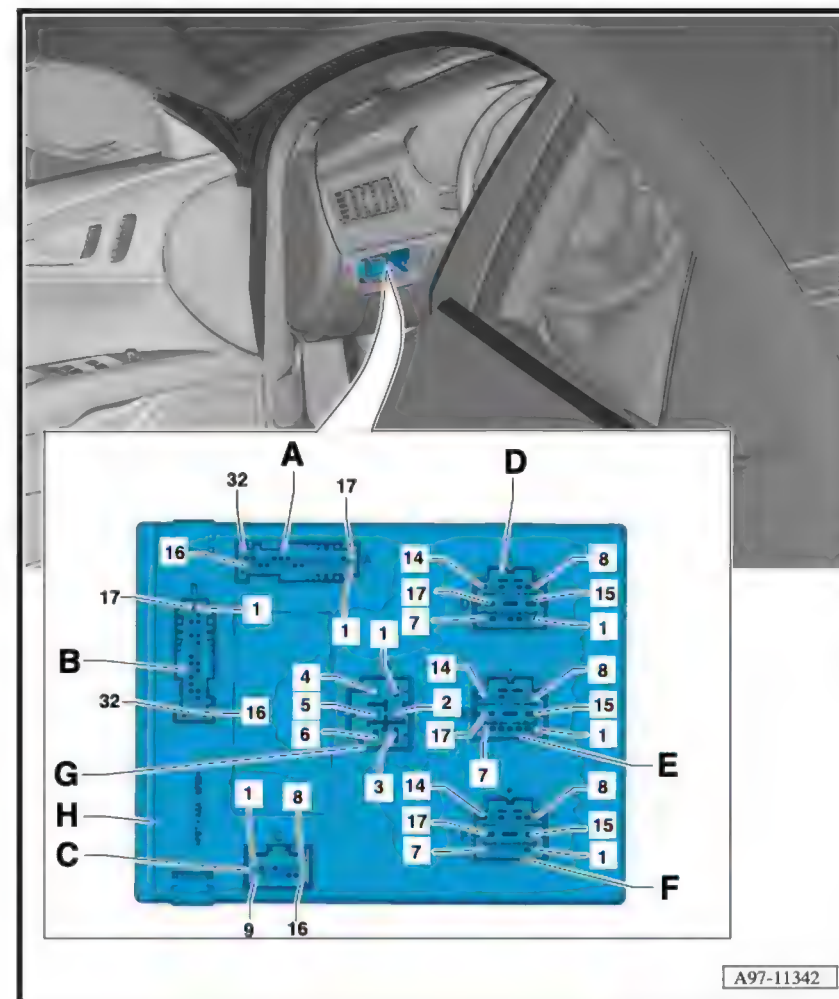
Back to overview ⇒ [o1.1 f Control Modules", page 1](#) .

1.10 Vehicle Electrical System Control Module -J519-

Component location, left-hand drive

Behind driver's left stowage compartment.

- A - 32-Pin Connector -T32c-, gray
- B - 32-Pin Connector -T32a-, black
- C - 16-Pin Connector -T16c-, brown
- D - 17-Pin Connector -T17d-, black
- E - 17-Pin Connector -T17c-, brown
- F - 17-Pin Connector -T17e-, red
- G - 6-Pin Connector -T6d-, gray
- H - Vehicle Electrical System Control Module -J519-



Back to overview ⇒ [o1.1 f Control Modules", page 1](#) .

1.11 Engine Control Module (ECM) -J623-

1.11.1 Engine Control Module (ECM) -J623- 154-pins

Component location, left-hand drive

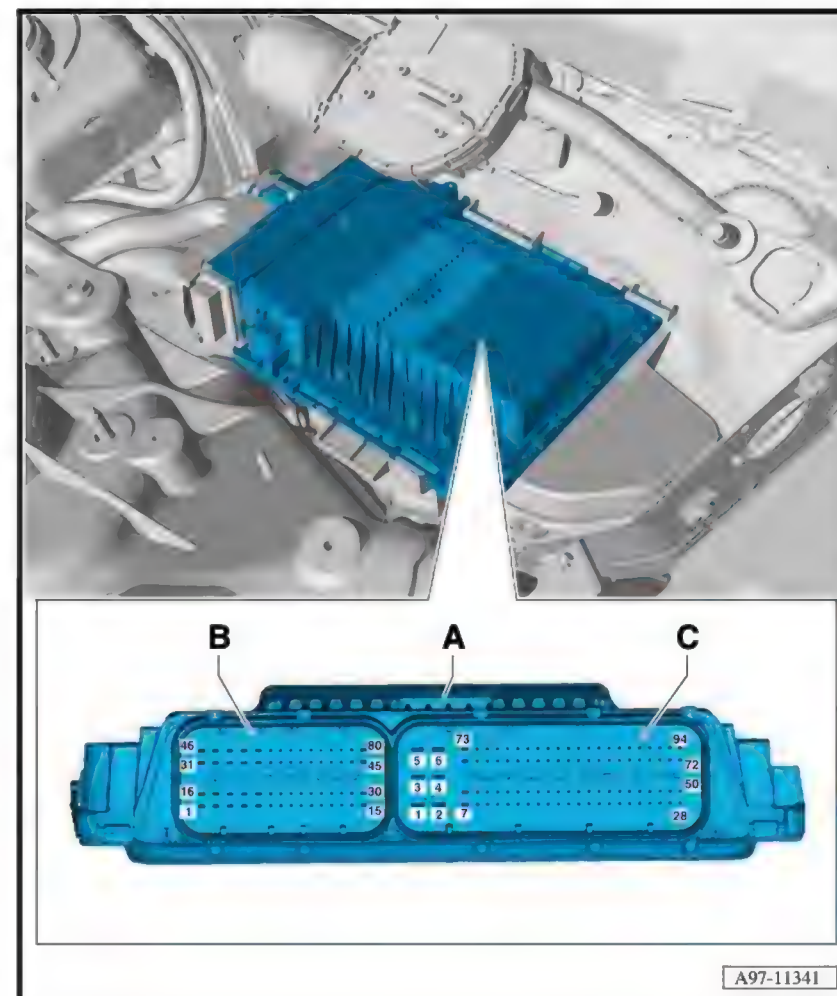
In plenum chamber, left.

A - Engine Control Module (ECM) -J623-

B - 60-Pin Connector -T60-, black

C - 94-Pin Connector -T94-, black

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1.11.2 Engine Control Module (ECM) -J623-, 196-pin

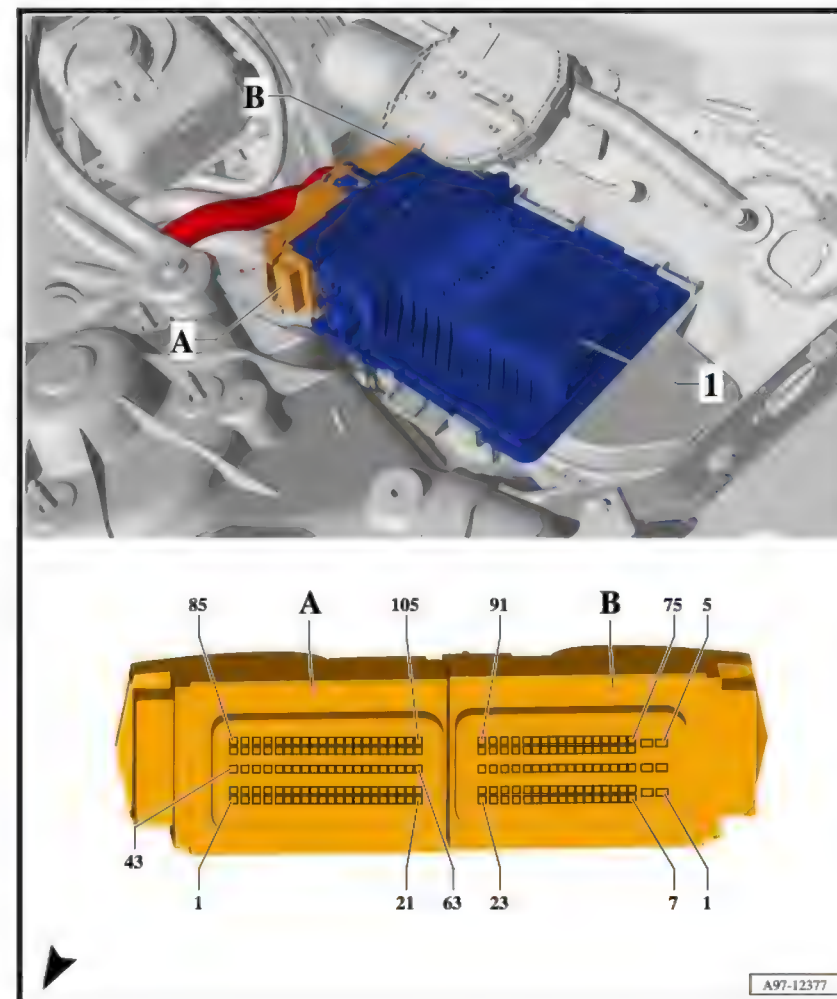
Engine Control Module (ECM) -J623-, 196-pin

In left plenum chamber, left-hand drive.

1 - Engine Control Module (ECM) -J623-

A - 105-Pin Connector -T105-, black

B - 91-Pin Connector -T91-, black



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1.11.3 Engine Control Module (ECM) -J623-, 315-pin

Engine Control Module (ECM) -J623-, 315-pin

In left plenum chamber, left-hand drive.

1 - Engine Control Module (ECM) -J623-

A - 56-Pin Connector -T56a-, black

❑ Contact carrier colour: black

B - 91-Pin Connector -T91-, black

❑ Contact carrier colour: black

C - 56-Pin Connector -T56b-, black

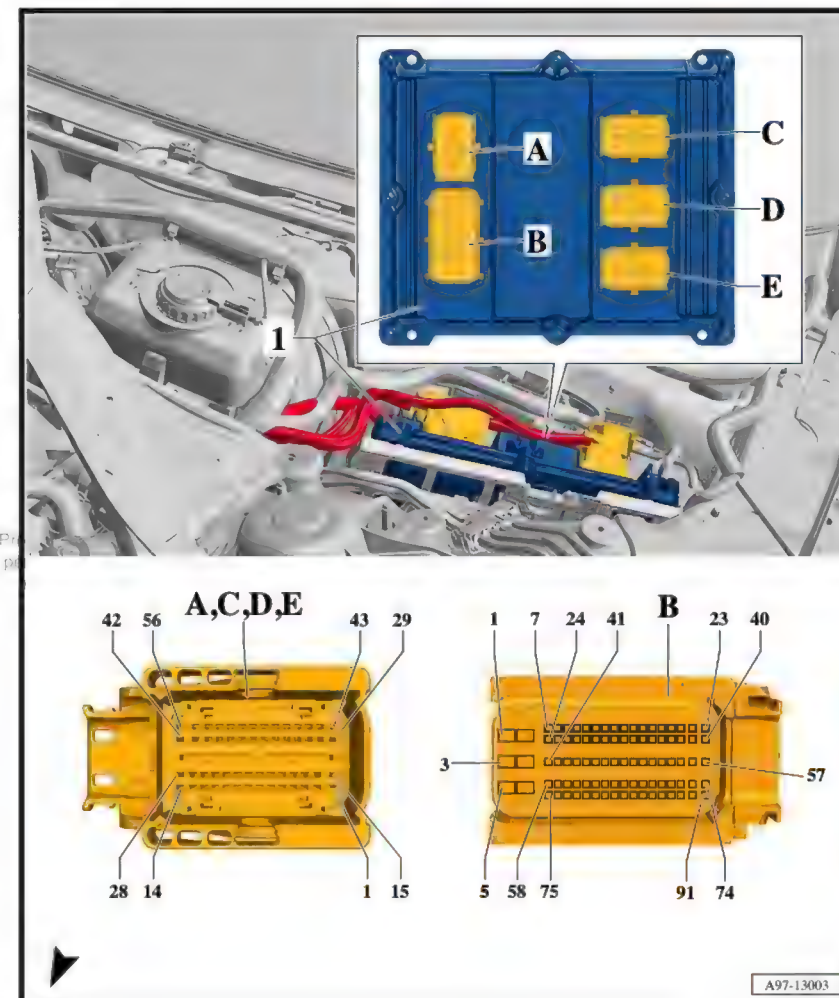
❑ Contact carrier colour: white

D - 56-Pin Connector -T56c-, black

❑ Contact carrier colour: blue

E - 56-Pin Connector -T56d-, black

❑ Contact carrier colour: purple



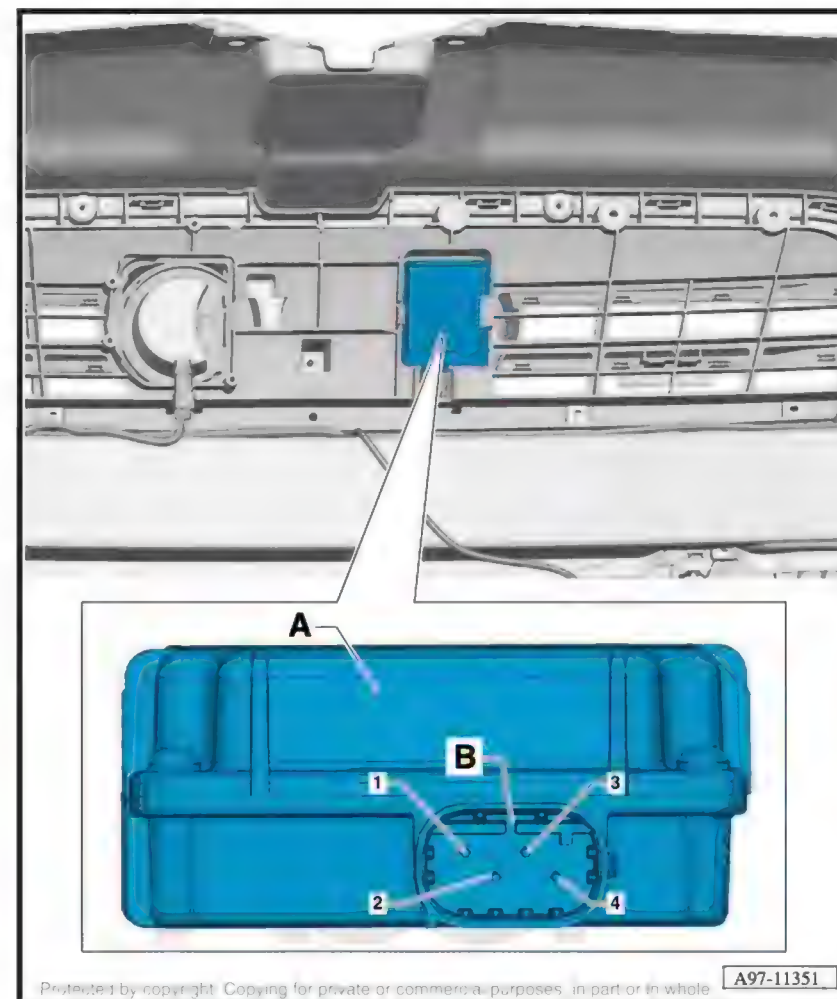
Back to overview ⇒ [o1.1 f Control Modules", page 1](#) .

1.12 Garage Door Opener Control Module -J530-

In front bumper cover, center -A-.

A - Garage Door Opener Control Module -J530-

B - 4-Pin Connector -T4r-, black



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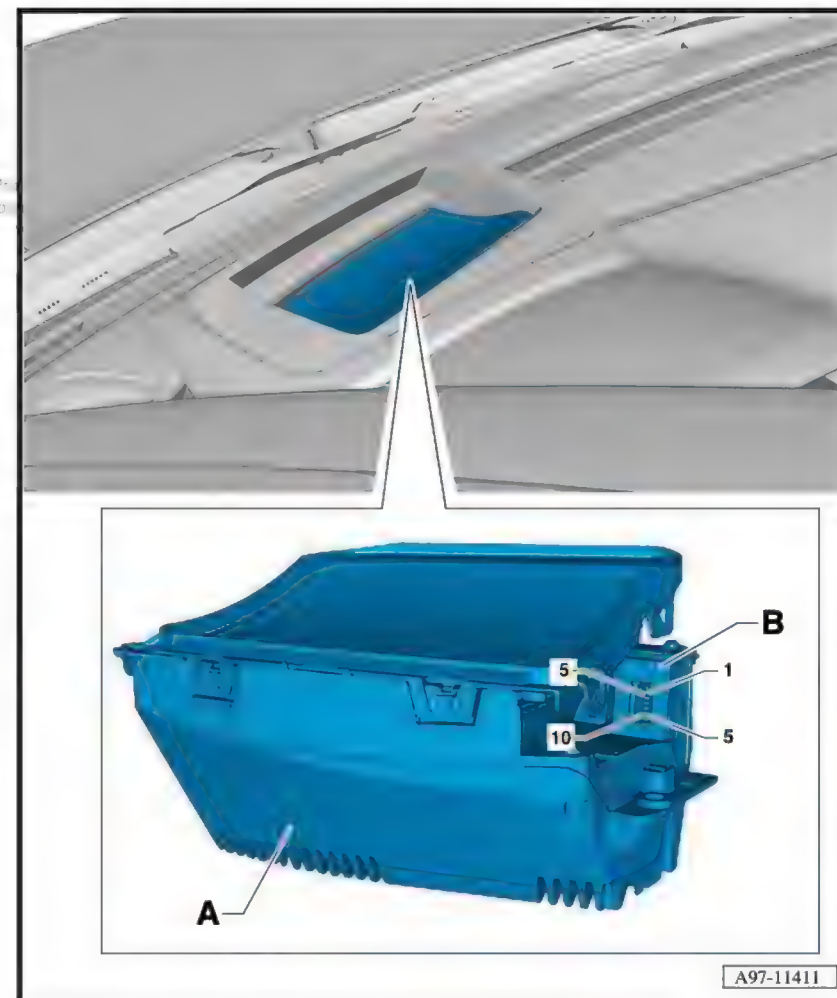
1.13 Windshield Projection Head Up Display Control Module -J898-

Component Location

in the front instrument panel, driver's side -A-.

A - Windshield Projection Head Up Display Control Module -J898-

B - 10-Pin Connector -T10g-, black



Back to overview ⇒ [o1.1 f Control Modules", page 1](#) .

1.14 ABS Control Module -J104-

1.14.1 ABS Control Module -J104-, 47-pin

Component Location

In engine compartment, left -A-.

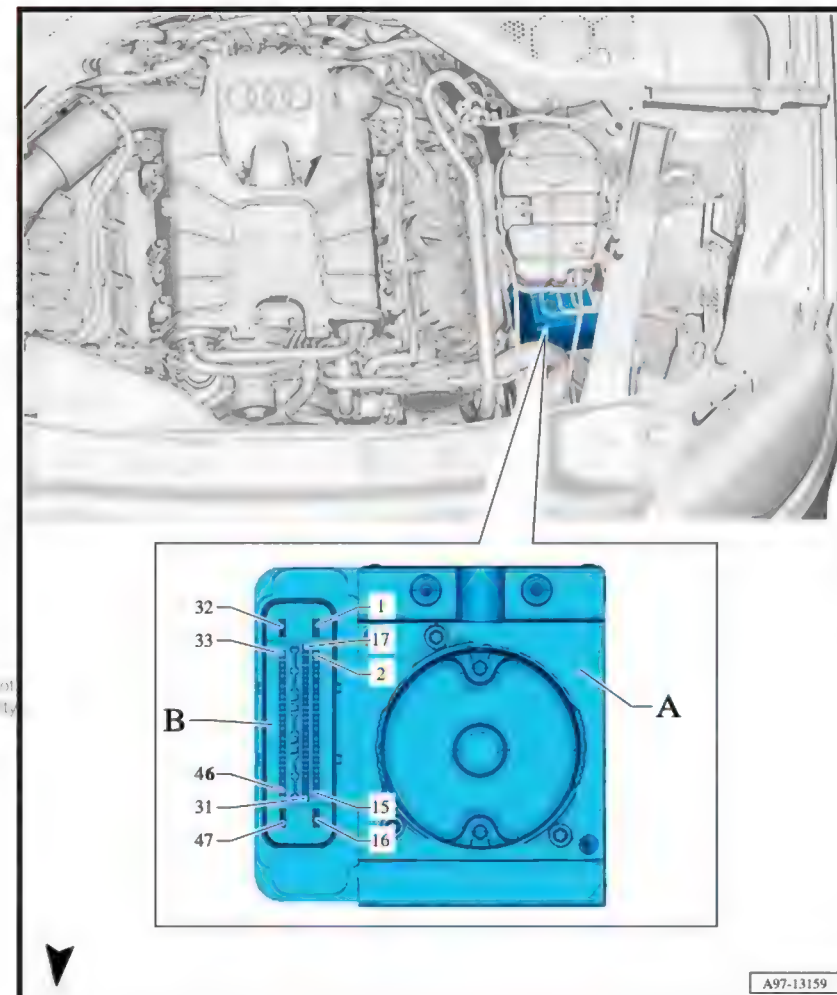
ABS Control Module -J104- , 47-pin

A - ABS Control Module -J104-

B - 47-Pin Connector -T47-, black



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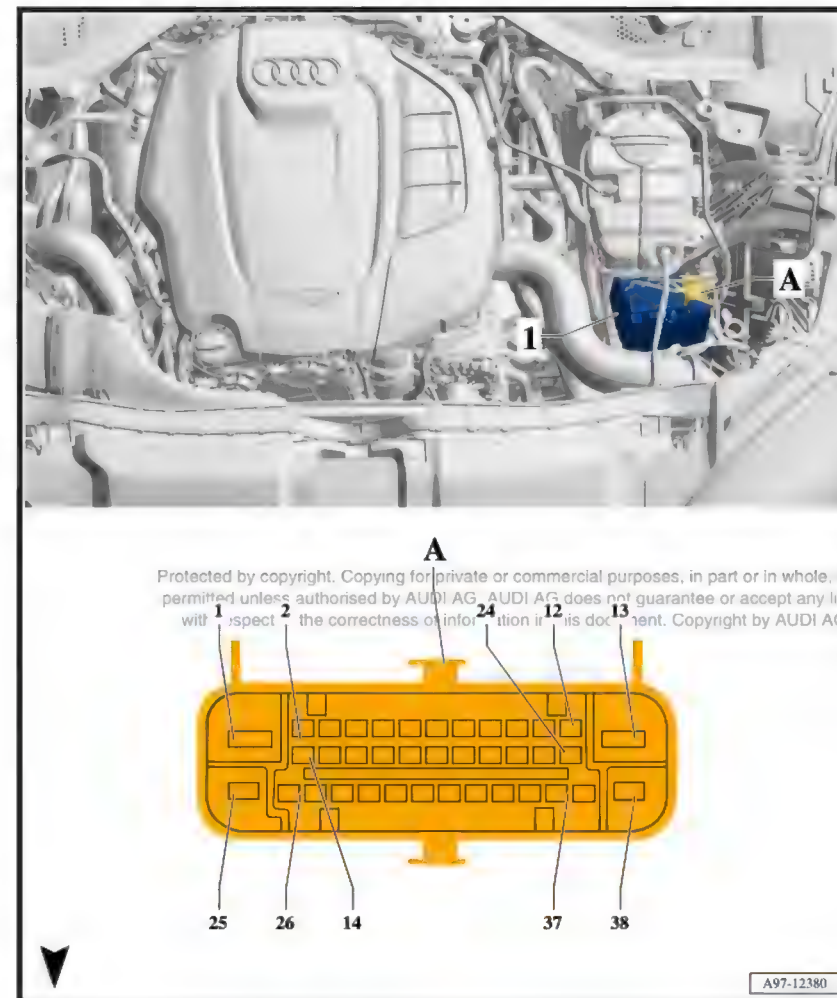


1.14.2 ABS Control Module -J104- 38-pin

ABS Control Module -J104- , 38-pin

1 - ABS Control Module -J104-

A - 38-Pin Connector -T38a-, black



[Back to overview ⇒ o1.1 f Control Modules", page 1 .](#)

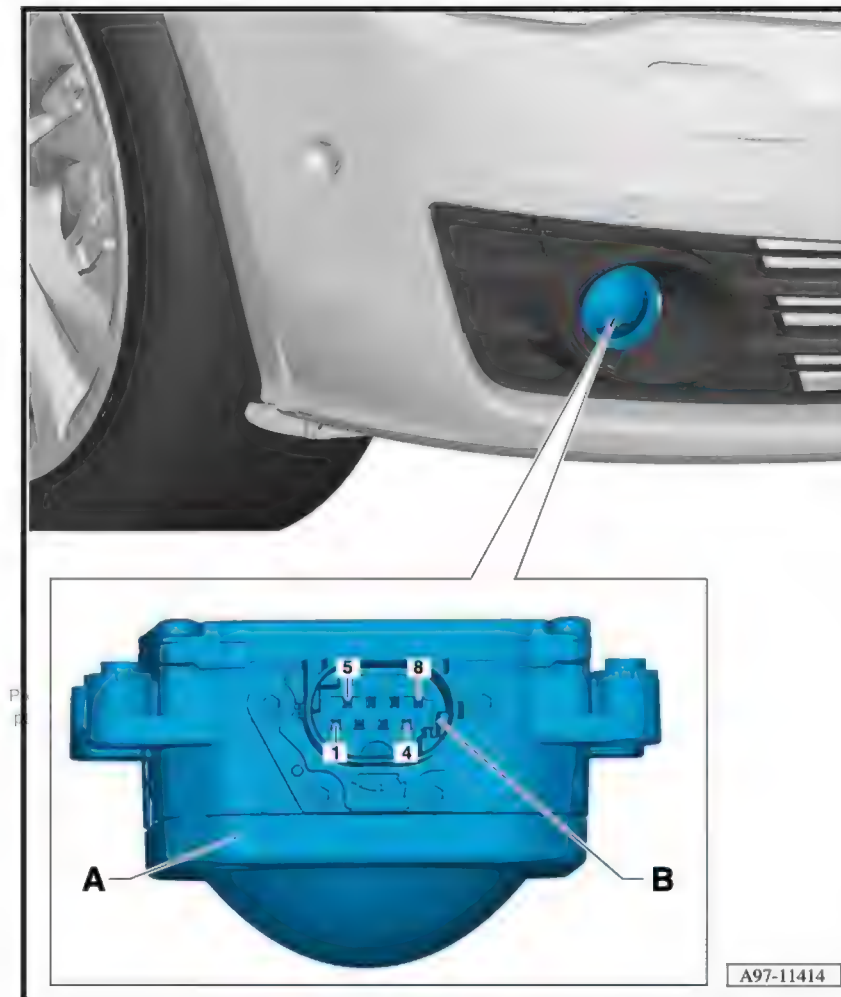
1.15 Distance Regulation Control Module -J428-

Component Location

Below front right headlamp.

A - Distance Regulation Control Module -J428-

B - 8-Pin Connector -T8k-, black



Back to overview [⇒ o1.1 f Control Modules", page 1](#) .

1.16 Distance Regulation Control Module 2 -J850-

Component Location

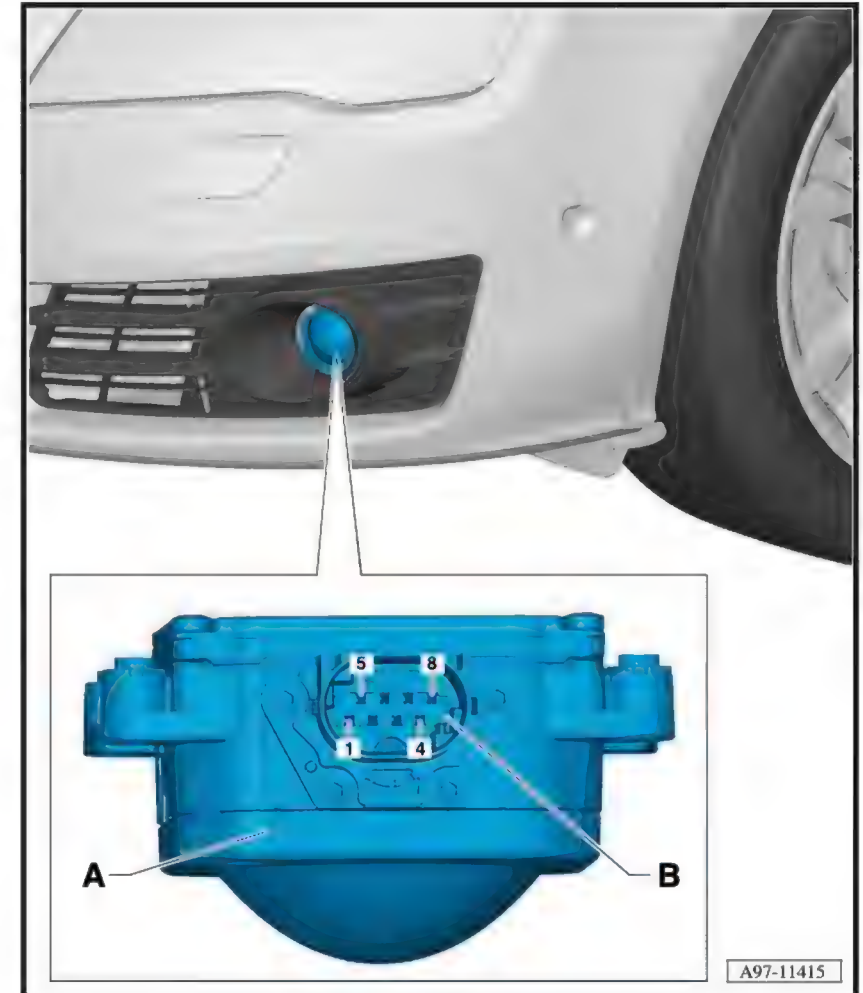
Below front left headlamp.

A - Distance Regulation Control Module 2 -J850-

B - 8-Pin Connector -T8I-, black



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1.17 Power Sunroof Control Module -J245-

Component Location

Behind the Front Interior Light -W1-.

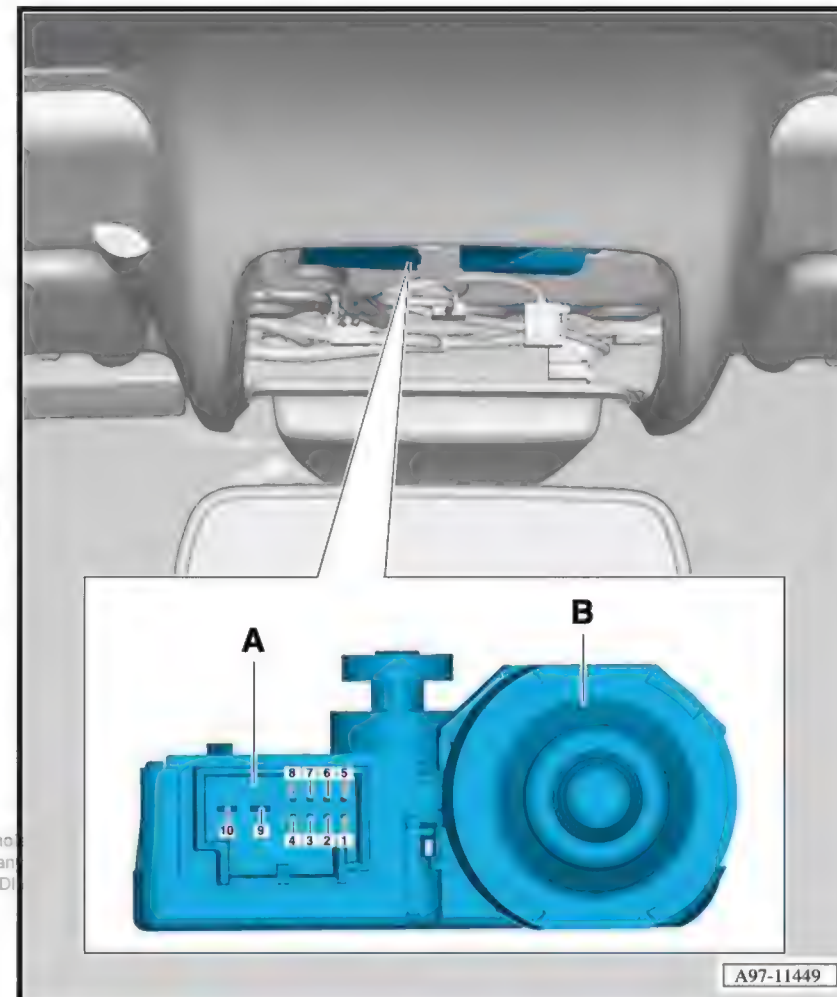
A - 10-Pin Connector -T10b-, black

B - Power Sunroof Control Module -J245-

□ with Sunroof Motor -V1-



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1.18 Roof Electronics Control Module -J528-

Component Location

In the Front Interior Light -W1-.

A - 6-Pin Connector -T6e-, blue

B - 10-Pin Connector -T10ab-, red

C - 5-Pin Connector -T5d-, black (Models with Sunroof, 3FD, 3FE)

C - 10-Pin Connector -T10aq-, black (Models with Sunroof, Panorama, 3FU)

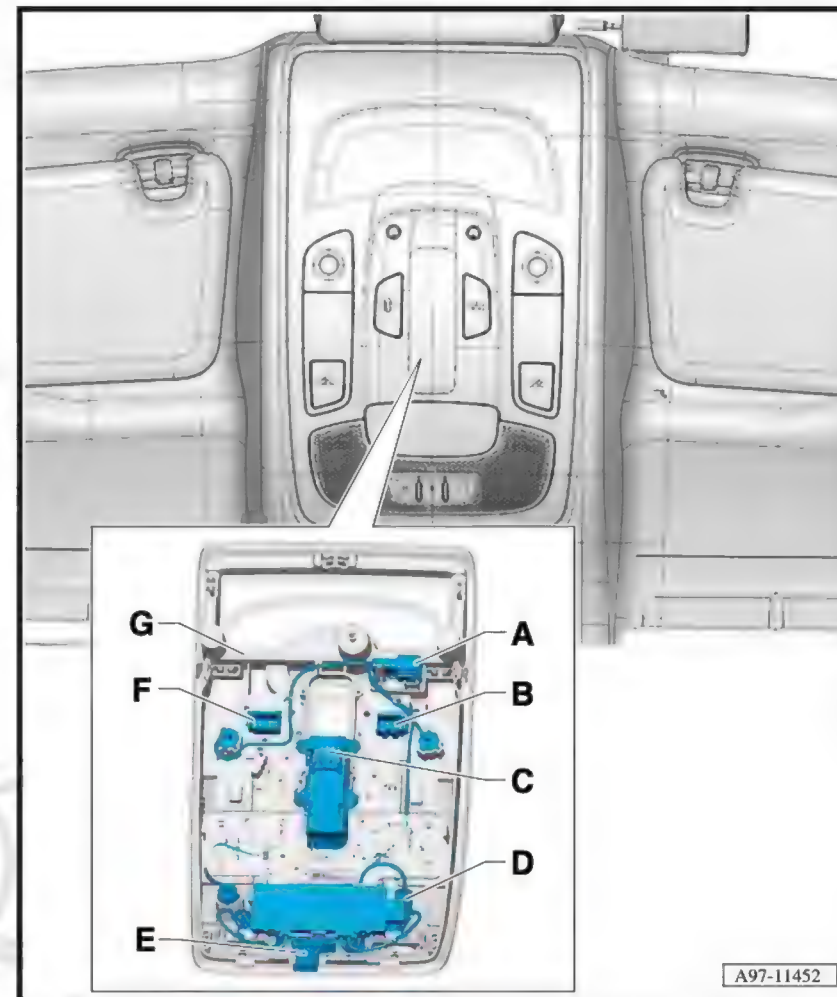
D - 4-Pin Connector -T4v-, black

E - 6-Pin Connector -T6f-, black

F - 10-Pin Connector -T10ac-, black

G - Roof Electronics Control Module -J528-

- with Front Interior Light -W1-, Left front reading lamp button -E633-, Right front reading lamp button -E634-, Rear reading lamp front button -E635-, Left front reading lamp -W65-, Right front reading lamp -W66-, Front Interior Lamp Button -E326-



Back to overview ⇒ [o1.1 f Control Modules", page 1](#) .

1.19 Left Front Seat Belt Tensioner Control Module -J854-/Right Front Seat Belt Tensioner Control Module -J855-

Component Location

In lower B-pillar.

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A - Left Front Seat Belt Tensioner Control Module -J854-/Right Front Seat Belt Tensioner Control Module -J855-

- with Driver's Safety Belt Tensioner Igniter 1 -N153-, Front Passenger's Safety Belt Tensioner Igniter 1 -N154-, Driver Belt Force Limiter -G551-, Front Passenger Belt Force Limiter -G552-

B - 5-Pin Connector -T5f- left, black, Airbag Control Module -J234-

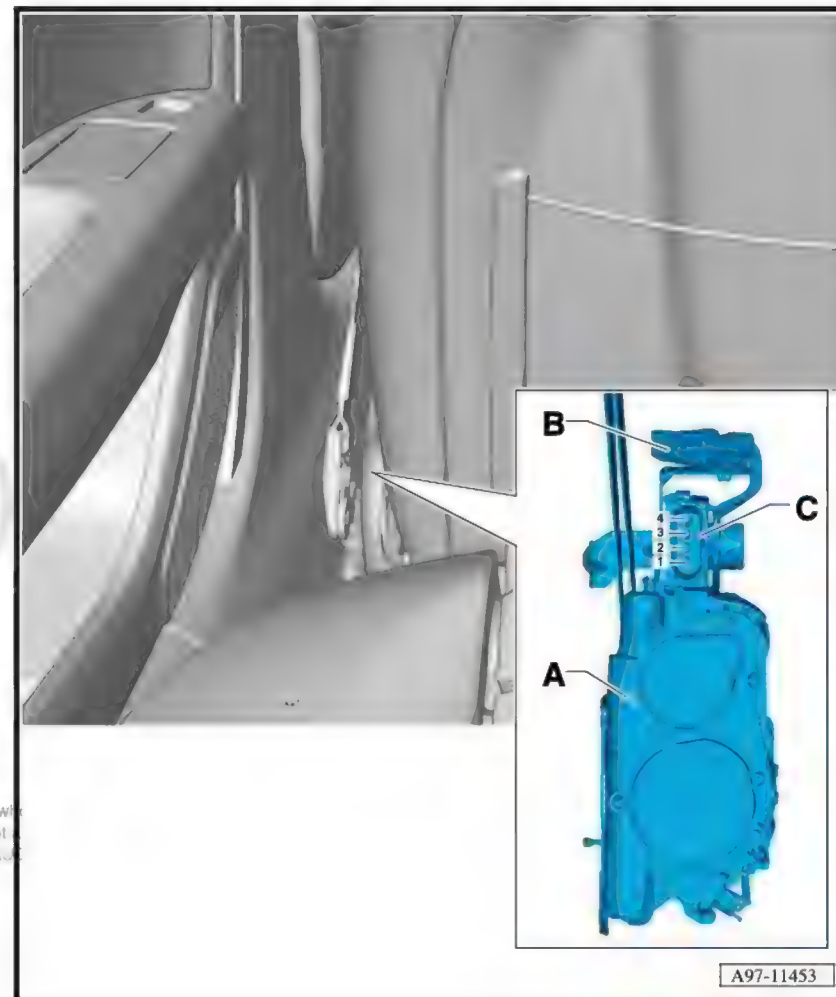
B - 5-Pin Connector -T5h- right, black, Airbag Control Module -J234-

C - 4-Pin Connector -T4x- left, black

C - 4-Pin Connector -T4ac- right, black



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1.20 Steering Column Electronic Systems Control Module -J527-

Component Location

On steering column on steering column switch.

Front side

A - 12-Pin Connector -T12v-, black, Airbag Spiral Spring/Return Spring With Slip Ring -F138-, Driver's Airbag Igniter -N95-, Driver's Airbag Igniter 2 -N250-

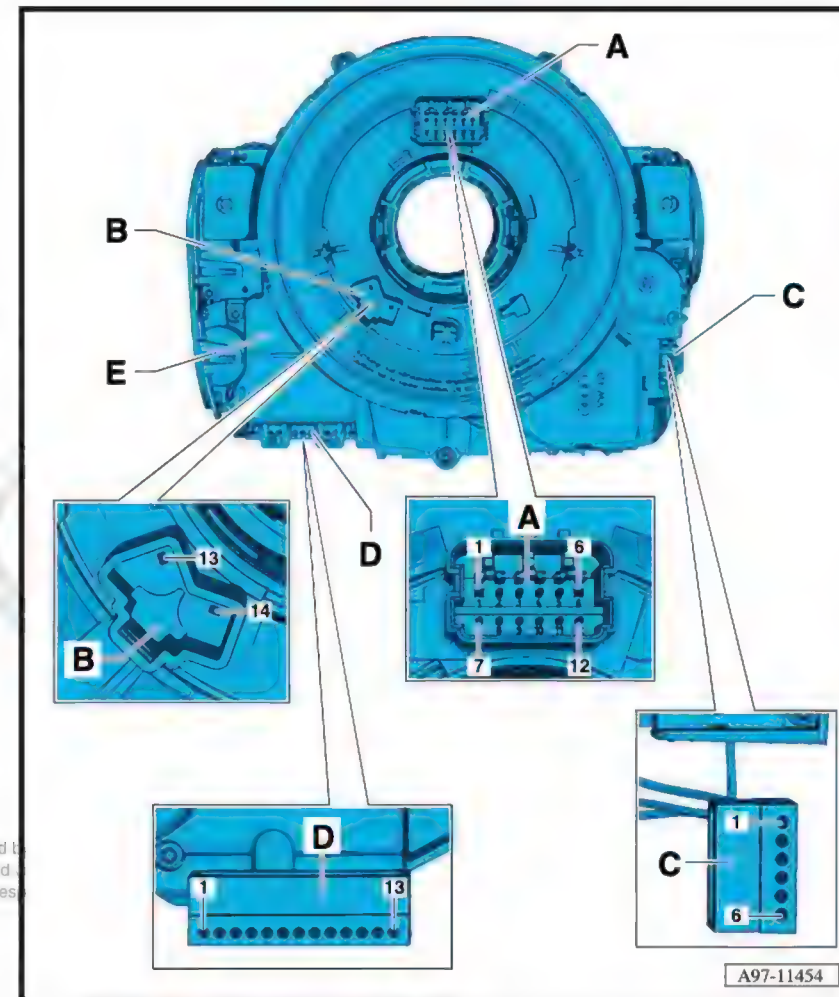
B - 2-Pin Connector -T2fk-, black, Airbag Spiral Spring/Return Spring With Slip Ring -F138-, Heated Steering Wheel -Z36-

C - 6-Pin Connector -T6am-, black, Windshield Wiper Intermittent Switch -E22-

D - 13-Pin Connector -T13b-, black, Turn Signal Switch -E2-, Headlamp Flasher Switch -E5-, Cruise Control Switch -E45-

E - Steering Column Electronic Systems Control Module -J527-

- with Turn Signal Switch -E2-, Headlamp Flasher Switch -E5-, Windshield Wiper Intermittent Switch -E22-, Cruise Control Switch -E45-, Spiral Spring -F350-, Steering Angle Sensor -G85-, Directional Stabilization Assistance Button -E517-, Airbag Spiral Spring/Return Spring With Slip Ring -F138-



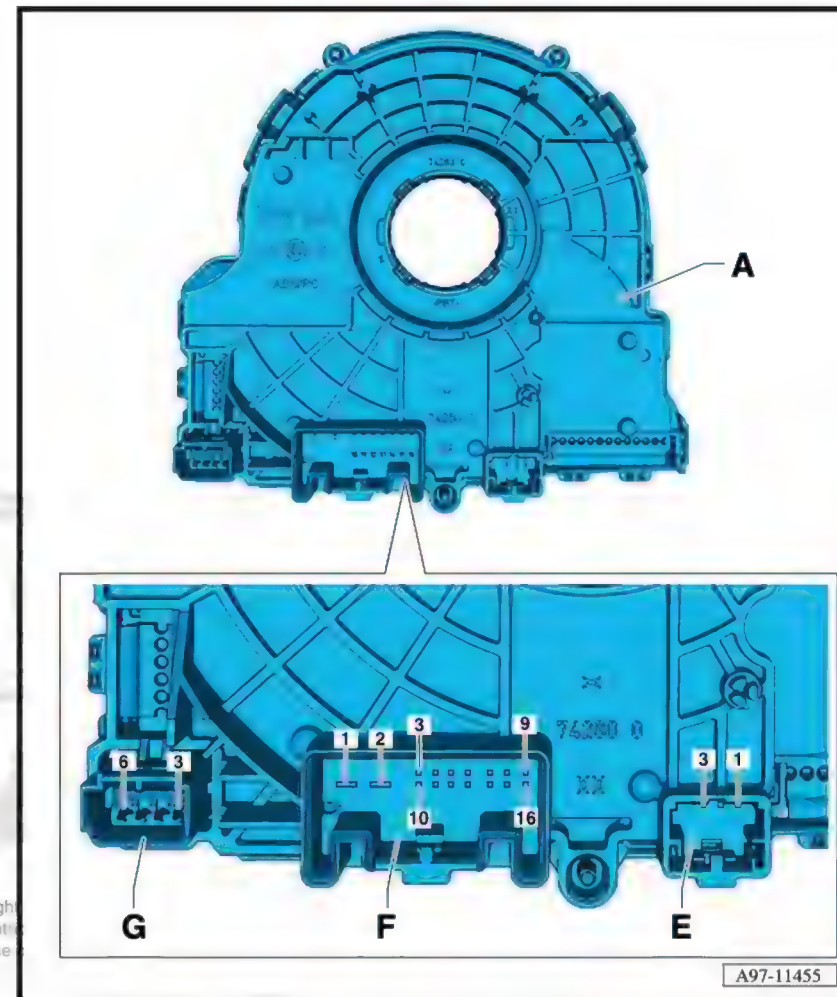
Rear side

A - Steering Column Electronic Systems Control Module -J527-

G - 4-Pin Connector -T4ah-, yellow, from Airbag Control Module -J234-

F - 16-Pin Connector -T16e-, black

E - Not used



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1.21 Camera Control Module -J852-

Component Location

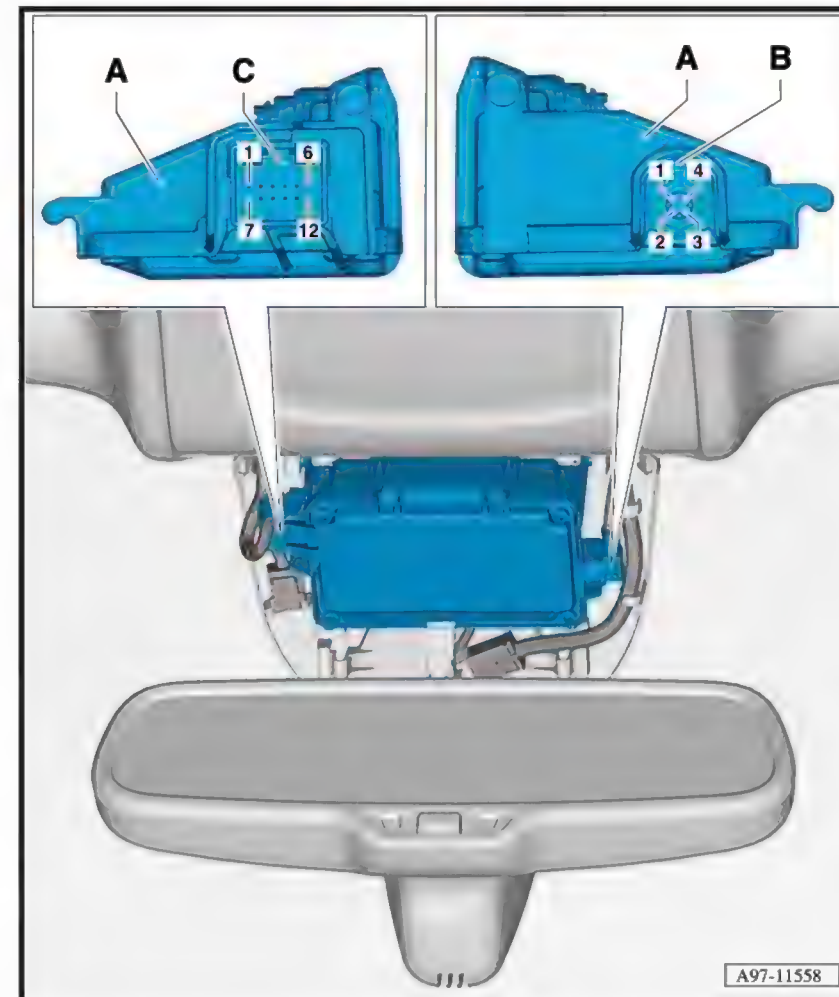
On upper windshield, center -A-.

A - Camera Control Module -J852-

B - 5-Pin Connector -T5c-, black

C - 12-Pin Connector -T12a-, black

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1.22 Power Steering Control Module -J500-

Component Location

On steering box -A-.

A - Power Steering Control Module -J500-

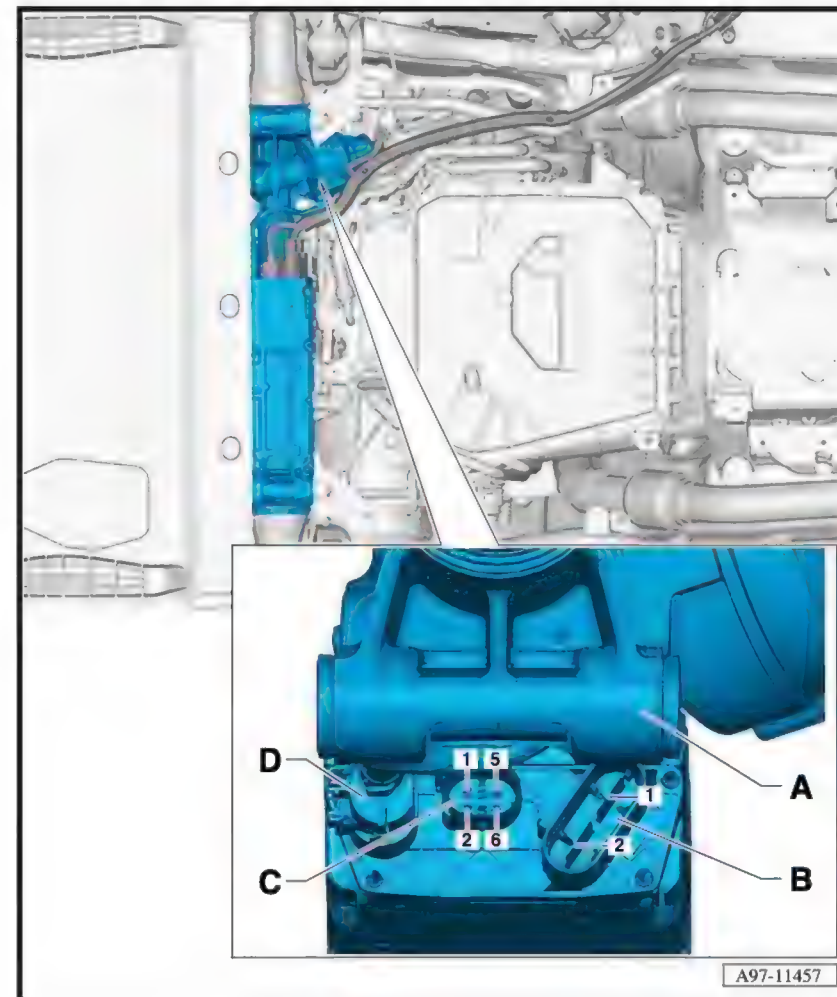
□ with Electro-mechanical Power Steering Motor -V187-, Steering Torque Sensor -G269-

B - 2-Pin Connector -T2fa-, black

C - 6-Pin Connector -T6ak-, black

D - Connector Sensor

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1.23 Auxiliary Heater Control Module -J364-

Component Location

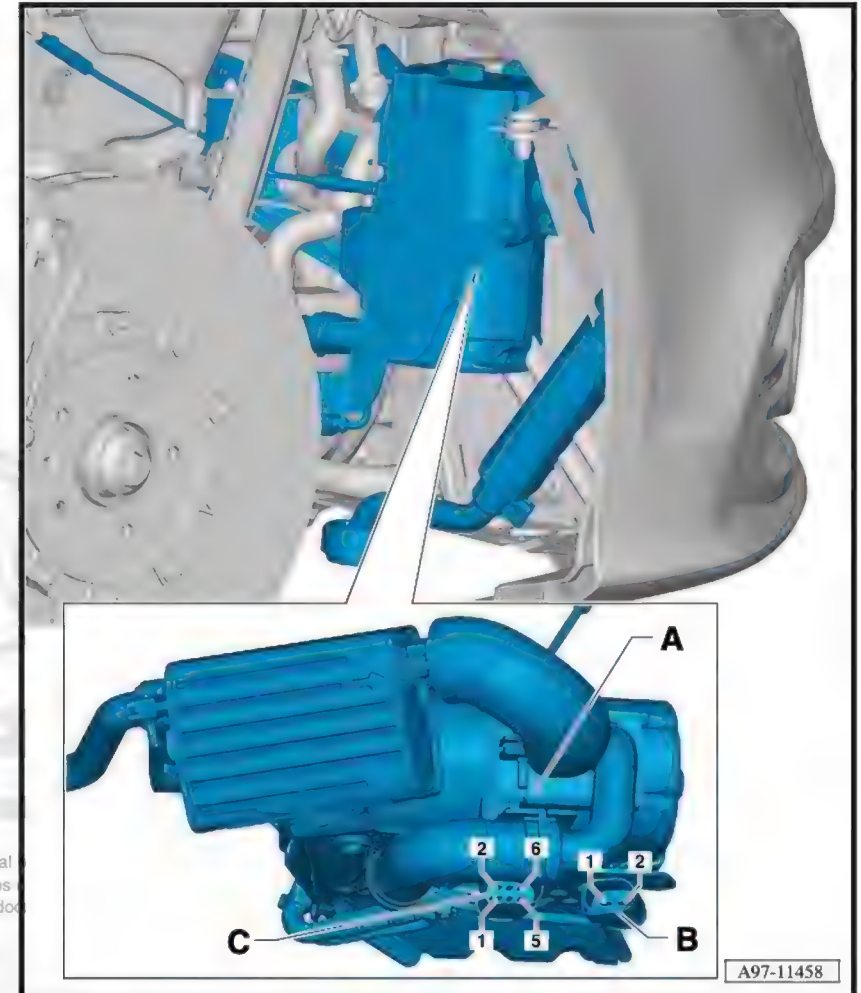
On right front long member -A-.

A - Auxiliary Heater Control Module -J364-

- with Auxiliary Heater Temperature Sensor 2 -G587-, Flame Monitor -G64-, Temperature Sensor -G18-, Heater Glow Plug -Q9-, Combustion Air Blower -V6-, Fuel Pre-Heating Heater -Z66-




B - 2-Pin Connector -T2az-, brown

C - 6-Pin Connector -T6k-, black





Pin Arrangements Auxiliary Heater Control Module -J364-

-T6k- (C)	Designation
1	CAN-Bus Instrument Cluster, High (B708) Instrument Cluster CAN Bus - High Connection 1 (in main wiring harness) Data Bus On Board Diagnostic Interface -J533-

-T6k- (C)	Designation
2	CAN-Bus Instrument Cluster, Low  Instrument Cluster CAN Bus - Low Connection 1 (in main wiring harness) Data Bus On Board Diagnostic Interface -J533-
3	Engine Coolant (EC) Switch-Off Valve (heater) -N279-
4	Metering Pump -V54-
5	Terminal 31, to  Ground Connection 15 (in main wiring harness)  Ground Connection (on right lower A-pillar)
6	Auxiliary Heater RF Receiver -R64-

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-T2az- (B)	Designation
1	Terminal 30, from Fuse Panel F -SF-
2	Terminal 31, to  Ground Connection 14 (in main wiring harness)  Ground Connection (on right lower A-pillar)

Back to overview ⇒ [o1.1 f Control Modules", page 1](#) .

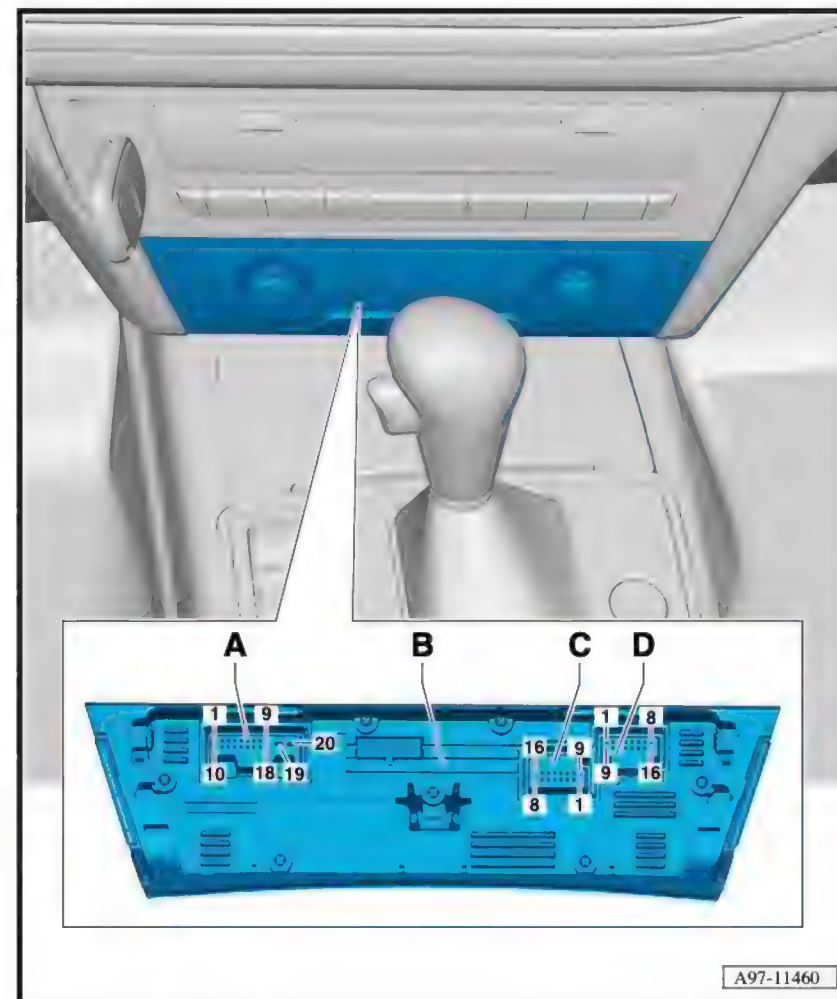
1.24 Climatronic Control Module -J255-

Component Location

In lower instrument panel, center. -B-.

- A - 20-Pin Connector -T20c-, black
- B - Climatronic Control Module -J255-
 - with Driver's Heated Seat Adjuster -E94- , Front Passenger's Heated Seat Adjuster -E95-
- C - 16-Pin Connector -T16f-, brown
- D - 16-Pin Connector -T16p-, black

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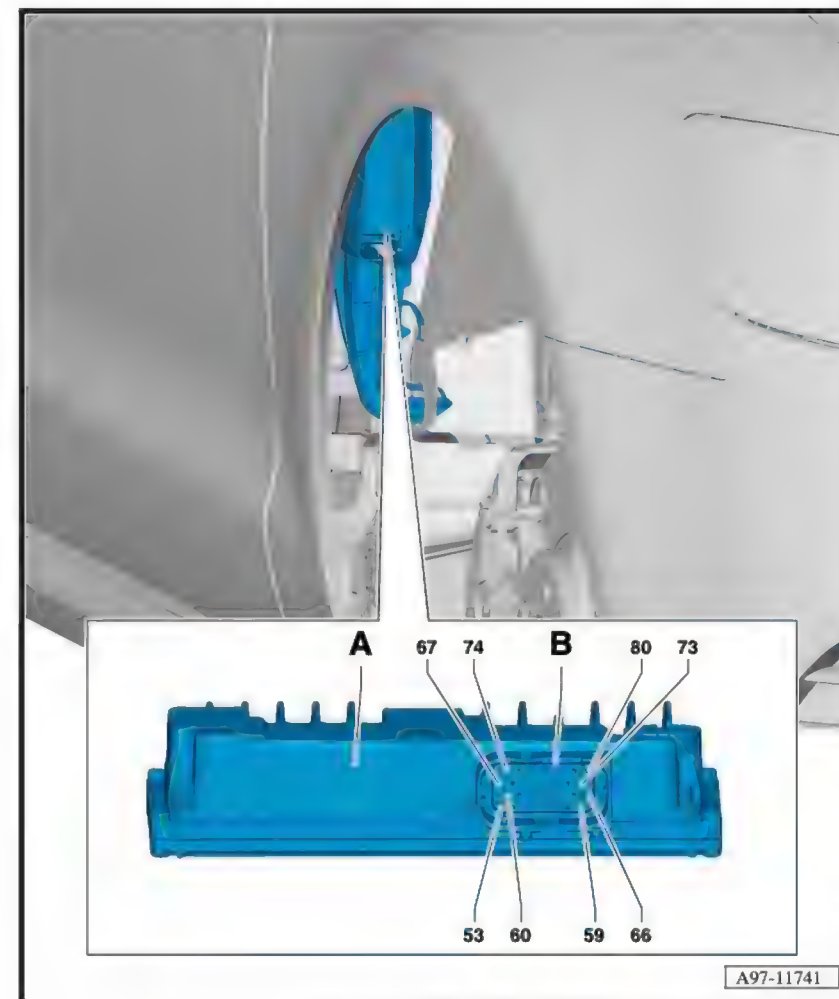
1.25 Subframe Mount Control Module -J931-

Component Location

Behind right wheel housing liner -A-.

A - Subframe Mount Control Module -J931-

B - 28-Pin Connector -T28-, black



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1.26 Wiper Motor Control Module -J400-

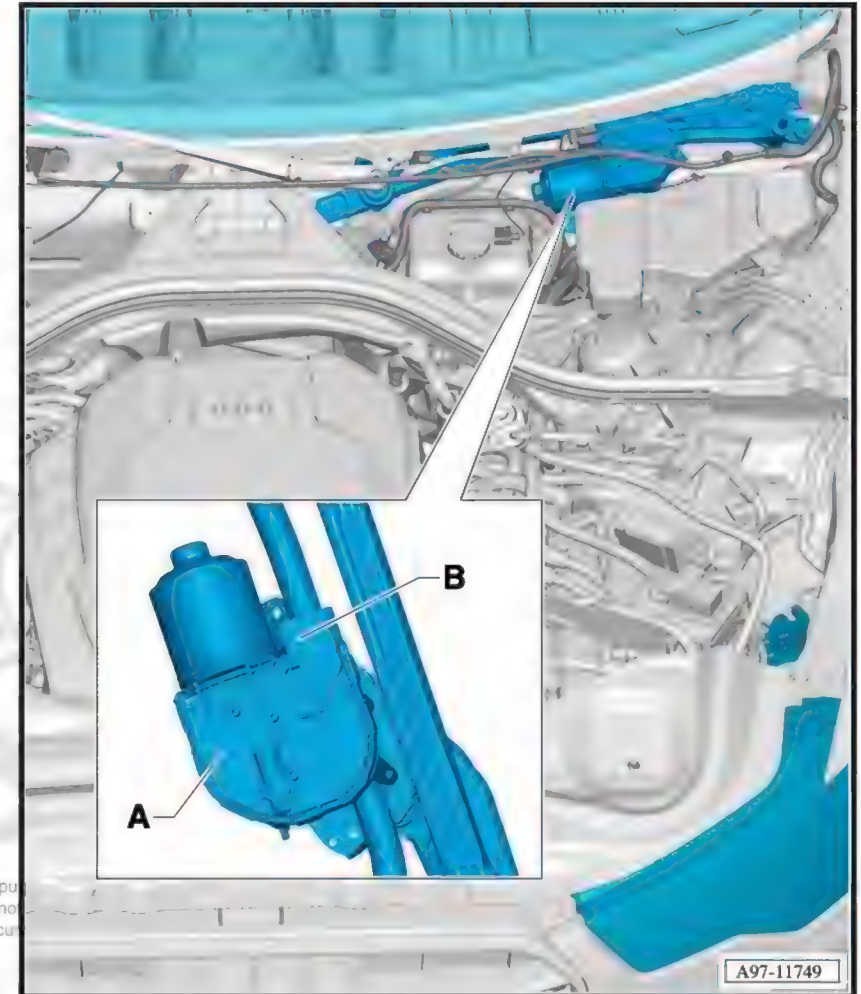
Component Location

In plenum chamber, left -A-.

A - Wiper Motor Control Module -J400-

□ with Windshield Wiper Motor -V-



B - 4-Pin Connector -T4t-, black



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Pin Arrangements Wiper Motor Control Module -J400-

-T4t- (B)	Designation
1	Terminal 30, from Fuse Panel B -SB-

-T4t- (B)	Designation
2	Terminal 31, to  Ground Connection 4 (in main wiring harness)  Ground Connection (on left lower A-pillar)
3	
4	LIN-Bus, from Vehicle Electrical System Control Module -J519-

Back to overview [⇒ o1.1 f Control Modules", page 1](#) .

1.27 Structure-Borne Sound Control Module -J869-

Component Location

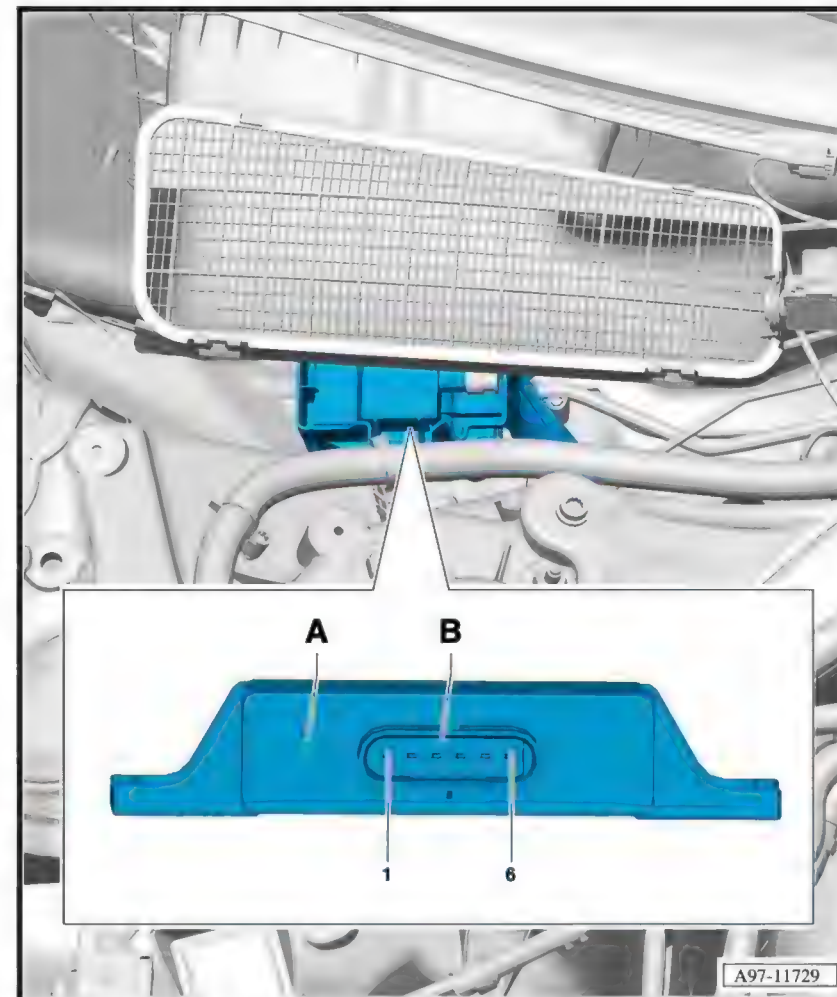
In plenum chamber, right -A-.

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A - Structure-Borne Sound Control Module -J869-




B - 6-Pin Connector -T6bw-, black

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Pin Arrangements Structure-Borne Sound Control Module -J869-

-T6bw- (B)	Designation		-T6bw- (B)	Designation
1	Structure-Borne Sound Actuator -R214-		4	Terminal 31, to 366 Ground Connection 1 (in main wiring harness)
				44 Ground Connection (on left lower A-pillar)

-T6bw- (B)	Designation		-T6bw- (B)	Designation
2	Structure-Borne Sound Actuator -R214-		5	CAN-Bus powertrain, Low  Powertrain CAN-Bus Low Connection 1 (in main wiring harness) Data Bus On Board Diagnostic Interface -J533-
3	Terminal 15, from  Positive connection 3 (15a) in main wiring harness Fuse Panel B -SB-		6	CAN-Bus powertrain, High  Powertrain CAN-Bus High Connection 1 (in main wiring harness) Data Bus On Board Diagnostic Interface -J533-

Back to overview ⇒ [o1.1 f Control Modules", page 1](#) .

1.28 Automatic Day/Night Interior Mirror -Y7- with Light Recognition Sensor -G399-

Component Location

On front roof pillar.

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1 - Camera Control Module -J852-

❑ Component Location and Connectors ⇒ [C1.21 Camera Control Module J852", page 28](#)

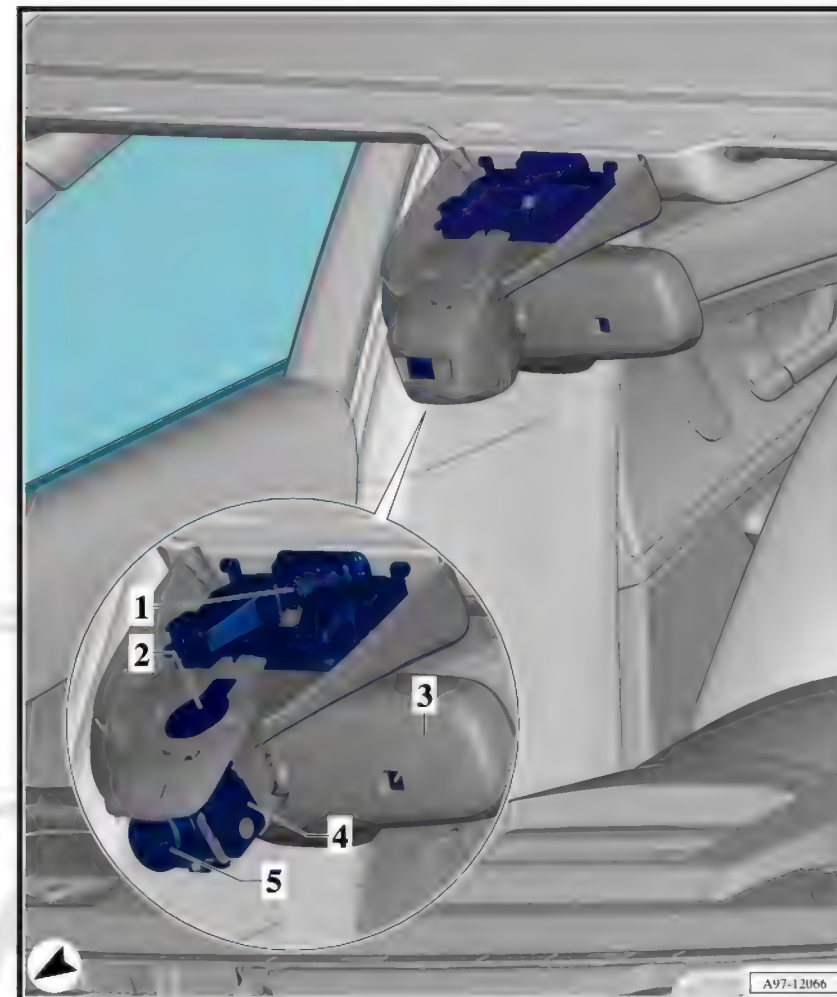
2 - Rain/Light Recognition Sensor -G397-

3 - Automatic Day/Night Interior Mirror -Y7-

❑ with Light Recognition Sensor -G399- , Rain/Light Recognition Sensor -G397-

4 - Humidity Sensor -G355-

5 - Automatic High Beam Assist Control Module -J844-



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1.29 Instrument Cluster Control Module -J285-

Component Location

In driver's instrument panel -C-.

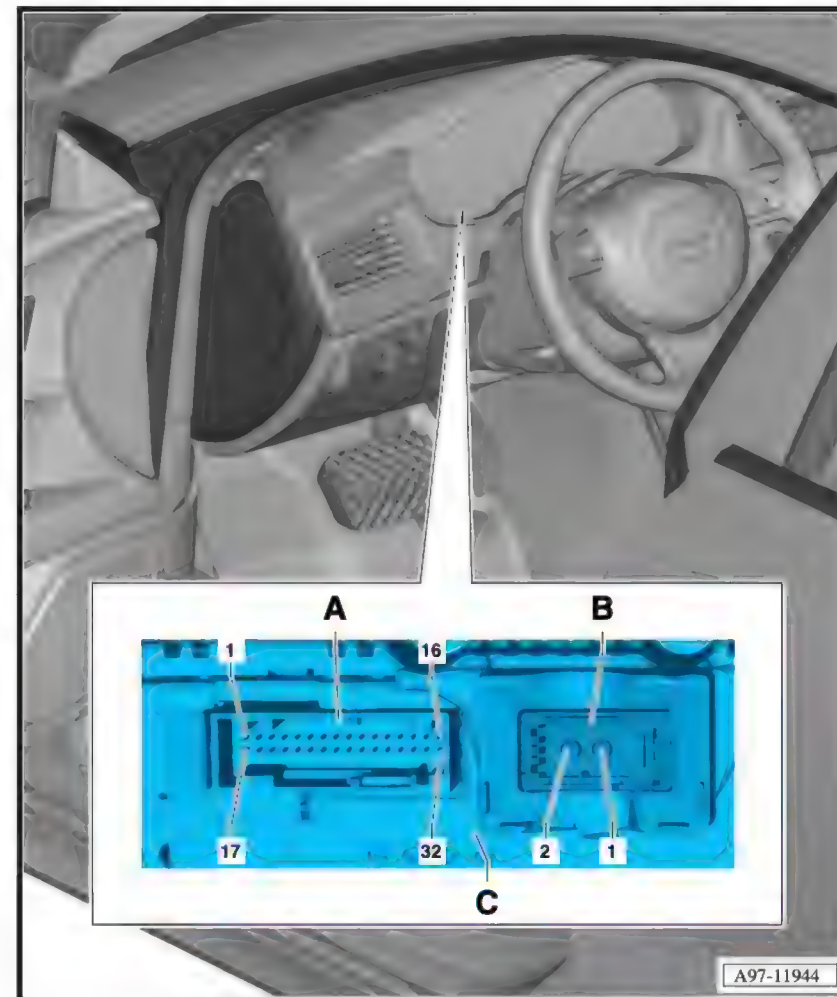
A - 32-Pin Connector -T32-, blue

B - 2-Pin Connector -T2bm-, MOST-Bus, black

C - Instrument Cluster Control Module -J285-

- with Fuel Gauge -G1-, Display Unit in Instrument Cluster -Y24-, High Beam Indicator Lamp -K1-, ABS Warning Lamp -K47-, Left Turn Signal Indicator Lamp -K261-, Airbag Malfunction Indicator Lamp (MIL) -K75-, Diesel electronics Indicator lamp -K104-, Engine Electronics Warning Lamp -K149-, Right Turn Signal Indicator Lamp -K262-

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1.30 Power Adjustable Steering Column Control Module -J866-

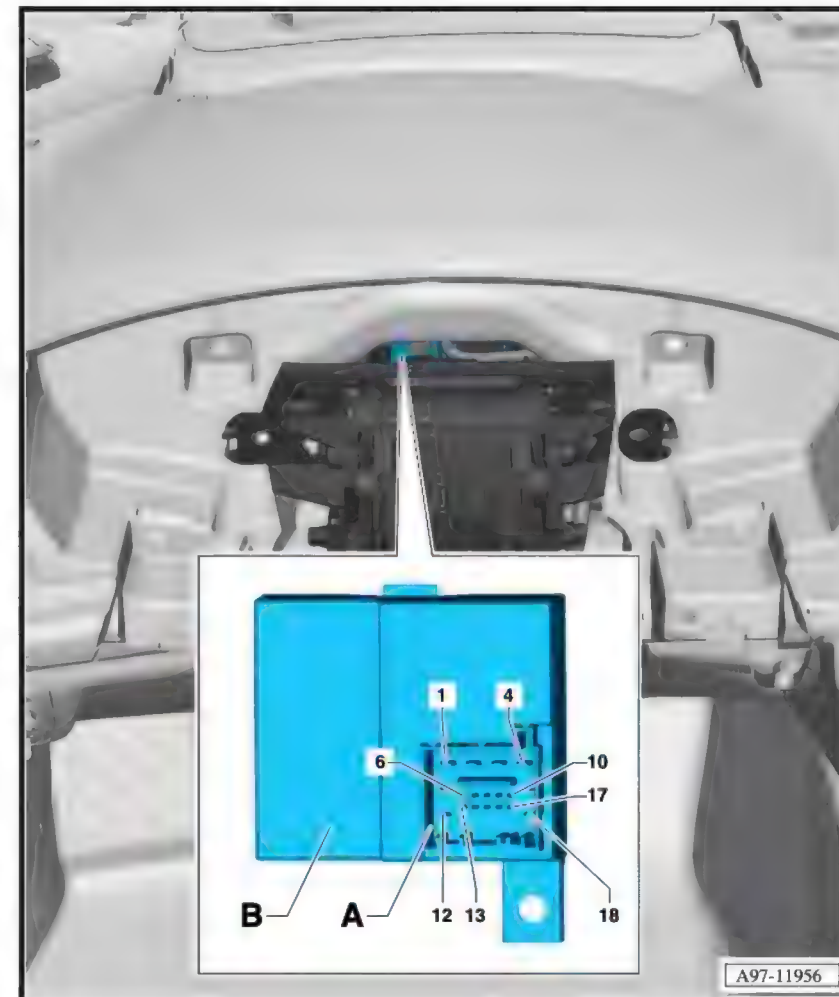
Component Location

On steering column -B-.

A - 18-Pin Connector -T18d-, black



B - Power Adjustable Steering Column Control Module -J866-

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Pin Arrangements Power Adjustable Steering Column Control Module -J866-

-T18d- (A)	Designation	-T18d- (A)	Designation
1	Steering Column Adjustment Motor (axial) -V124-	10	Steering Column Vertical Adjustment Sensor -G357-
2	<div> <div>B730</div> <div>Connection (in steering column adjustment wiring harness)</div> </div> Steering Column Adjustment Motor (axial) -V124-	11	Steering Column Axial Adjustment Sensor -G358-

-T18d- (A)	Designation		-T18d- (A)	Designation
3	Terminal 31, to  Ground Connection 1 (in instrument panel wiring harness)  Ground Connection (behind instrument panel, center)		12	
4	Terminal 30, from Fuse Panel C -SC-		13	
5	Steering Column Adjustment Motor (vertical) -V123-		14	
6			15	Steering Column Adjustment Switch -E167-
7	LIN-Bus, to Vehicle Electrical System Control Module -J519-		16	
8			17	Steering Column Axial Adjustment Sensor -G358-
9	Steering Column Adjustment Switch -E167-		18	Steering Column Vertical Adjustment Sensor -G357-

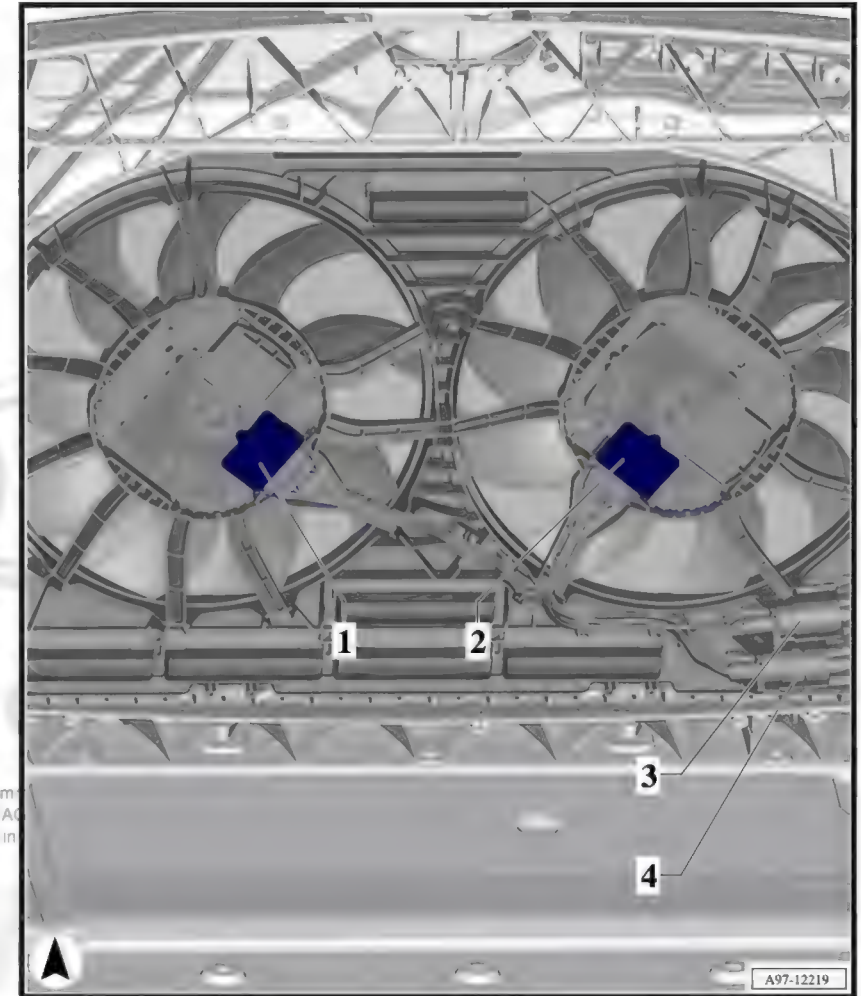
Back to overview [⇒ o1.1 f Control Modules", page 1](#) .

1.31 Coolant fan control module -J293-/Coolant Fan Control (FC) Control Module 2 -J671-

Component Location

On Cooler, front.





- 1 - Coolant fan control module -J293-
 - ❑ Coolant Fan -V7-
- 2 - Coolant Fan Control (FC) Control Module 2 -J671-
 - ❑ Coolant Fan 2 -V177-
- 3 - 4-Pin Connector -T4bg-, black
- 4 - 4-Pin Connector -T4bf-, black



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Pin Arrangements Coolant fan control module -J293-/Coolant Fan Control (FC) Control Module 2 -J671-

-T4bg- (3)	Designation	-T4bf- (4)	Designation
1	Terminal 30, from Terminal 30 Wire Junction -TV2- Coolant Fan Single Fuse -S42-	1	Terminal 30, from Terminal 30 Wire Junction -TV2- Second Speed Coolant Fan Fuse -S104-

-T4bg- (3)	Designation	-T4bf- (4)	Designation
2	Terminal 87, from  Connection 1 (in coolant fan wiring harness) Fuse Panel A -SA- ¹⁾ Thermal management control module -J1024- ²⁾	2	Terminal 87, from  Connection 1 (in coolant fan wiring harness) Fuse Panel A -SA- ¹⁾ Thermal management control module -J1024- ²⁾
3	Engine Control Module (ECM) -J623- ¹⁾ Thermal management control module -J1024- ²⁾	3	Engine Control Module (ECM) -J623- ¹⁾ Thermal management control module -J1024- ²⁾
4	Terminal 31, to  Ground Connection 1 (on right front long member)	4	Terminal 31, to  Ground Connection 1 (on right front long member) <small>Protected by Copyright. Copying for private or commercial purposes is prohibited without the written permission of Audi AG. Audi AG is not liable for any errors or omissions with respect to the correctness of information in this document. Copyright by Audi AG.</small>

¹⁾ Only models without High-Voltage System (0K3), from Week 47/2016

²⁾ Only models with High-Voltage System (0K3), from Week 47/2016

Back to overview ⇒ [o1.1 f Control Modules", page 1](#) .

1.32 Control modules on front headlamp -MX1-/ -MX2-

⇒ [m1.32.1 odules on front headlamp MX1/MX2, gas discharge Headlamp, through model year 2014", page 44](#)

⇒ [m1.32.2 odules on front headlamp MX1/MX2, gas discharge Headlamp, from model year 2015", page 45](#)

⇒ [m1.32.3 odules on front headlamp MX1/MX2, LED Headlamp, through model year 2014", page 46](#)

⇒ [m1.32.4 odules on front headlamp MX1/MX2, LED Headlamp, from model year 2015", page 47](#)

1.32.1 Control modules on front headlamp -MX1-/ -MX2-, gas discharge Headlamp, through model year 2014

Component Location

On headlamp.

1 - Left Daytime Running Lamp and Parking Light Control Module -J860-/Right Daytime Running Lamp and Parking Light Control Module -J861-

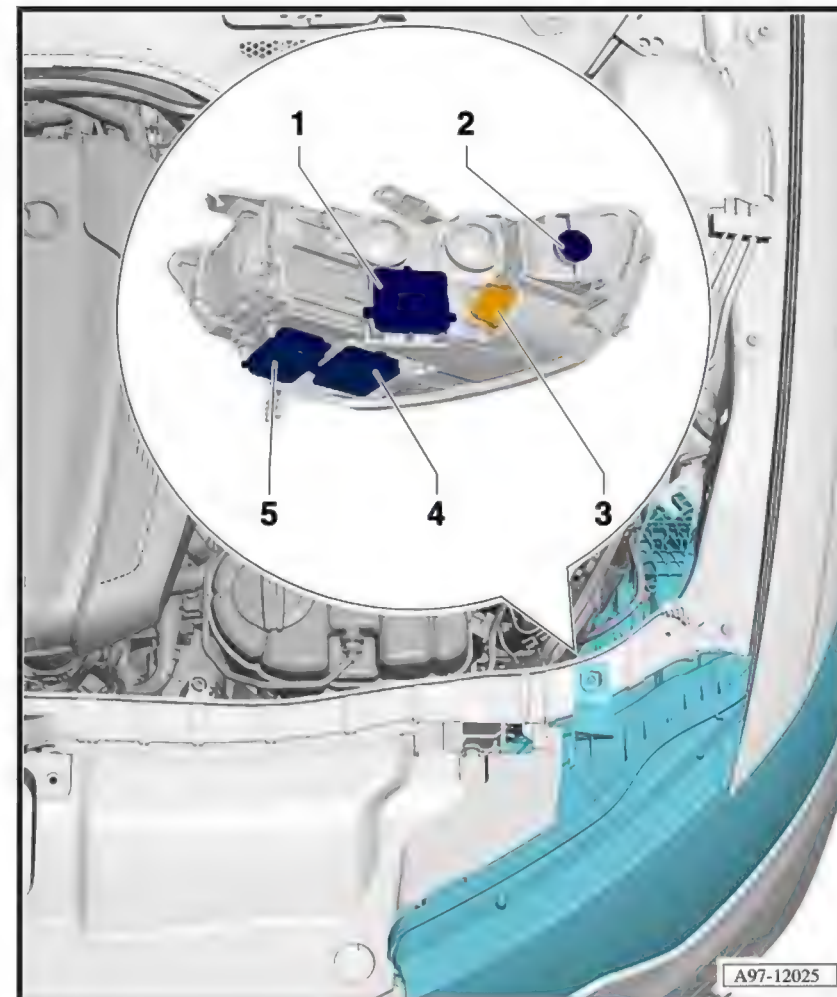
2 - Ventilation

3 - 14-Pin Connector -T14c-/ 14-Pin Connector -T14d-, black

4 - Left High-intensity Gas Discharge Lamp Control Module -J343-/Right High-intensity Gas Discharge Lamp Control Module -J344-

5 - Left Headlamp Power Output Stage -J667- /Right Headlamp Power Output Stage -J668-

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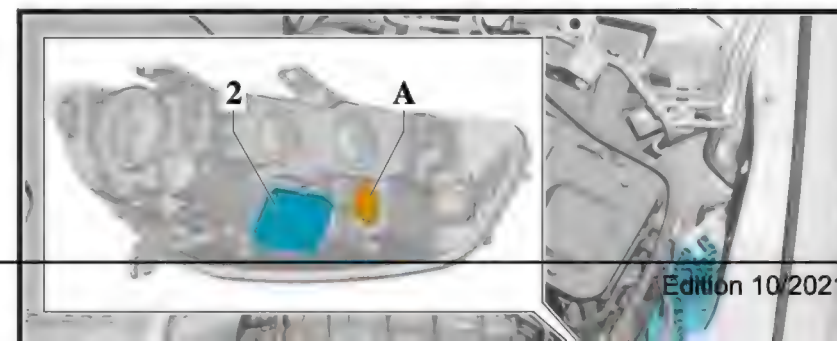


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1.32.2 Control modules on front headlamp -MX1-/ -MX2-, gas discharge Headlamp, from model year 2015

Component Location

On headlamp.



1 - Front Left Headlamp -MX1-/Front Right Headlamp -MX2-

2 - Left Daytime Running Lamp and Parking Light Control Module -J860-/Right Daytime Running Lamp and Parking Light Control Module -J861-

A - 14-Pin Connector -T14c-/14-Pin Connector -T14d-, black

Pin Arrangements front headlamp -MX1- /-MX2-

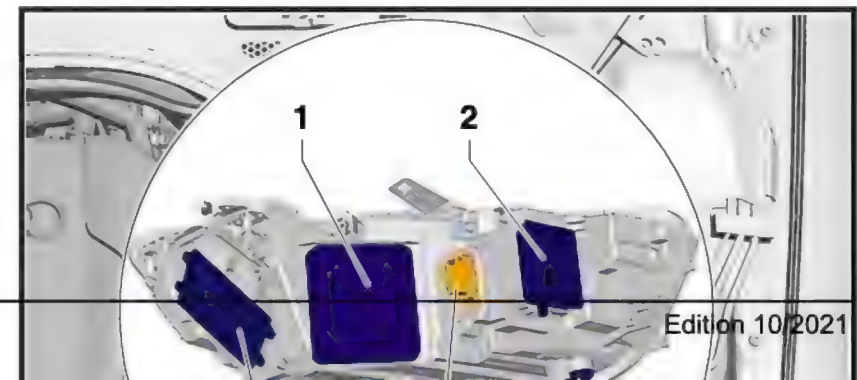
-T14c- (A)	Designation		-T14d- (A)	Designation
1	Vehicle Electrical System Control Module -J519-		1	Vehicle Electrical System Control Module -J519-
2	Vehicle Electrical System Control Module -J519-		2	Vehicle Electrical System Control Module -J519-
3	Vehicle Electrical System Control Module -J519-		3	Vehicle Electrical System Control Module -J519-
4	Vehicle Electrical System Control Module -J519-		4	Vehicle Electrical System Control Module -J519-
5	Terminal 31, to 44 Ground Connection (on left lower A-pillar)		5	Terminal 31, to 43 Ground Connection (on right lower A-pillar)
6	Vehicle Electrical System Control Module -J519-		6	Vehicle Electrical System Control Module -J519-
7	Terminal 31, to 44 Ground Connection (on left lower A-pillar)		7	Terminal 31, to 43 Ground Connection (on right lower A-pillar)
8			8	
9	Vehicle Electrical System Control Module -J519-		9	Vehicle Electrical System Control Module -J519-
10	Vehicle Electrical System Control Module -J519-		10	Vehicle Electrical System Control Module -J519-
11	Vehicle Electrical System Control Module -J519-		11	Vehicle Electrical System Control Module -J519-
12	Vehicle Electrical System Control Module -J519-		12	Vehicle Electrical System Control Module -J519-
13	Vehicle Electrical System Control Module -J519-		13	Vehicle Electrical System Control Module -J519-
14	Vehicle Electrical System Control Module -J519-		14	Vehicle Electrical System Control Module -J519-

Back to overview ⇒ [o1.1 f Control Modules", page 1](#) .

1.32.3 Control modules on front headlamp -MX1-/ -MX2-, LED Headlamp, through model year 2014

Component Location

On headlamp.



- 1 - Left LED Headlamp Power Output Stage 3 -A33-/Right LED Headlamp Power Output Stage 3 -A29-
- 2 - Left LED Headlamp Power Output Stage 2 -A32-/Right LED Headlamp Power Output Stage 2 -A28-
- 3 - Ventilation
- 4 - 16-Pin Connector -T16b-/ 16-Pin Connector -T16k-, black
- 5 - Left LED Headlamp Power Output Stage 4 -A34-/Right LED Headlamp Power Output Stage 4 -A30-/Left LED Headlamp Power Output Stage 1 -A31-/Right LED Headlamp Power Output Stage 1 -A27-

Back to overview ⇒ [o1.1 f Control Modules", page 1](#) .

1.32.4 Control modules on front headlamp -MX1-/ -MX2-, LED Headlamp, from model year 2015



Component Location

On headlamp.

1 - Front Left Headlamp -MX1-/Front Right Headlamp -MX2-

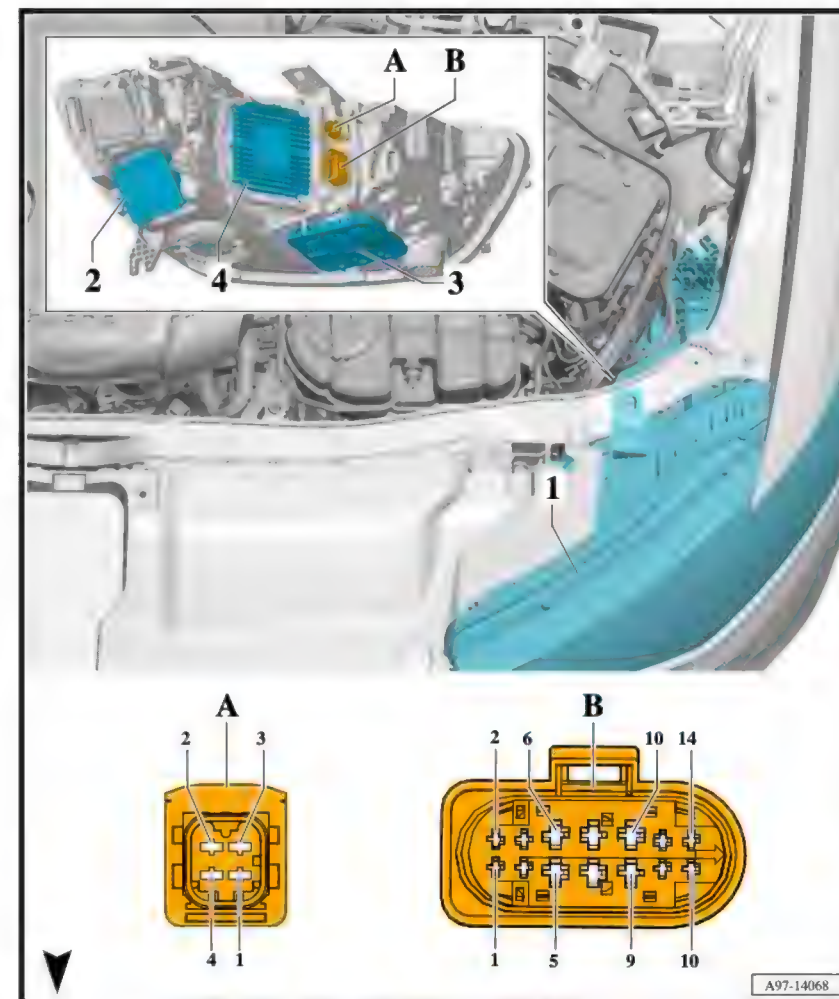
2 - Left LED Headlamp Power Output Stage 2 -A32-/Right LED Headlamp Power Output Stage 2 -A28-

3 - Left Matrix Headlamp Output Stage -A44-/Right Matrix Headlamp Power Output Stage -A45-

4 - Left LED Headlamp Power Output Stage 1 -A31-/Right LED Headlamp Power Output Stage 1 -A27-

A - 4-Pin Connector -T4gf- 4-Pin Connector -T4gg-



B - 14-Pin Connector -T14c-/14-Pin Connector -T14d-, black



Pin Arrangements front headlamp -MX1- /-MX2-









-T4gf- (A)	Designation	-T4gg- (A)	Designation
1	Vehicle Electrical System Control Module -J519- ¹⁾	1	Vehicle Electrical System Control Module -J519- ¹⁾
2	Comfort System Central Control Module -J393- ²⁾	2	Comfort System Central Control Module -J393- ²⁾
3		3	

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-T4gf- (A)	Designation		-T4gg- (A)	Designation
4	Terminal 31, to  Ground Connection (on left lower A-pillar) ²⁾		4	Terminal 31, to  Ground Connection (on right lower A-pillar) ²⁾

1) LED Headlamps without Matrix-Beam

2) LED Headlamps with Matrix-Beam

-T14c- (B)	Designation		-T14d- (B)	Designation
1	Vehicle Electrical System Control Module -J519-		1	Vehicle Electrical System Control Module -J519-
2	Vehicle Electrical System Control Module -J519-		2	Vehicle Electrical System Control Module -J519-
3	Vehicle Electrical System Control Module -J519-		3	Vehicle Electrical System Control Module -J519-
4	Vehicle Electrical System Control Module -J519-		4	Vehicle Electrical System Control Module -J519-
5	Terminal 31, to  Ground Connection (on left lower A-pillar)		5	Terminal 31, to  Ground Connection (on right lower A-pillar)
6	Vehicle Electrical System Control Module -J519-		6	Vehicle Electrical System Control Module -J519-
7	Terminal 31, to  Ground Connection (on left lower A-pillar)		7	Terminal 31, to  Ground Connection (on right lower A-pillar)
8	Terminal 30, from Fuse Carrier 1 -ST1- in Fuse Panel B -SB-		8	Terminal 30, from Fuse Carrier 1 -ST1- in Fuse Panel B -SB-
9	Vehicle Electrical System Control Module -J519-		9	Vehicle Electrical System Control Module -J519-
10	Vehicle Electrical System Control Module -J519-		10	Vehicle Electrical System Control Module -J519-
11	Vehicle Electrical System Control Module -J519-		11	Vehicle Electrical System Control Module -J519-
12	Vehicle Electrical System Control Module -J519-		12	Vehicle Electrical System Control Module -J519-
13	CAN-Bus High, to  CAN-Bus High Connection (in headlamp wiring harness)		13	CAN-Bus High, to  CAN-Bus High Connection (in headlamp wiring harness)
14	CAN-Bus Low, to  CAN-Bus Low Connection (in headlamp wiring harness)		14	CAN-Bus Low, to  CAN-Bus Low Connection (in headlamp wiring harness)

Back to overview ⇒ [o1.1 f Control Modules", page 1](#) .

1.33 Electronic Steering Column Lock Control Module -J764-

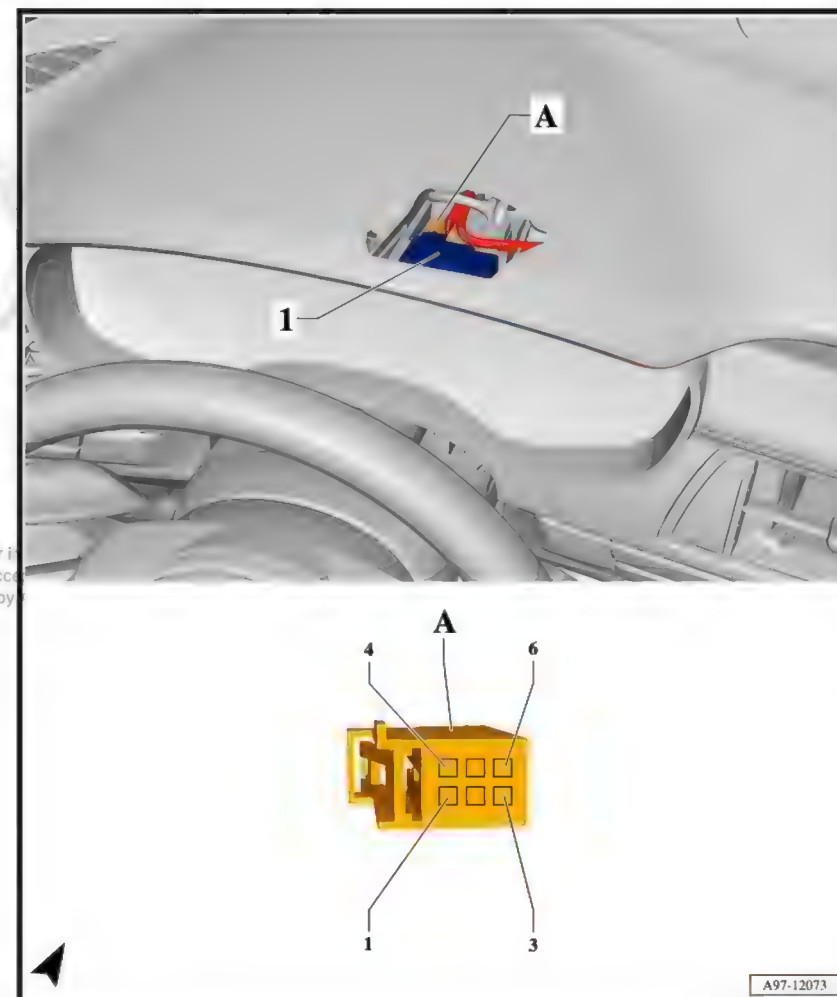
Component Location

On steering column -1-.




1 - Electronic Steering Column Lock Control Module -J764-

A - 6-Pin Connector -T6p-, black

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Pin Arrangements Electronic Steering Column Lock Control Module -J764-

-T6p- (A)	Designation		-T6p- (A)	Designation
1	Terminal 15, from Comfort System Central Control Module -J393-		4	Comfort System Central Control Module -J393-
2	Vehicle Electrical System Control Module -J519-		5	LIN-Bus,  LIN bus connection 1 (in instrument panel wiring harness) Comfort System Central Control Module -J393-
3	Terminal 31, to  Ground Connection 3 (in instrument panel wiring harness)  Ground Connection (behind instrument panel, center)		6	Terminal 30, from Fuse Panel C -SC-

Back to overview ⇒ [o1.1 f Control Modules", page 1](#) .

1.34 Power Sunroof Control Module -J245-, panorama sunroof
Component Location

Behind the Front Interior Light -W1- -1-.

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1 - Power Sunroof Control Module -J245-, panorama sunroof

□ with Sunroof Motor -V1-

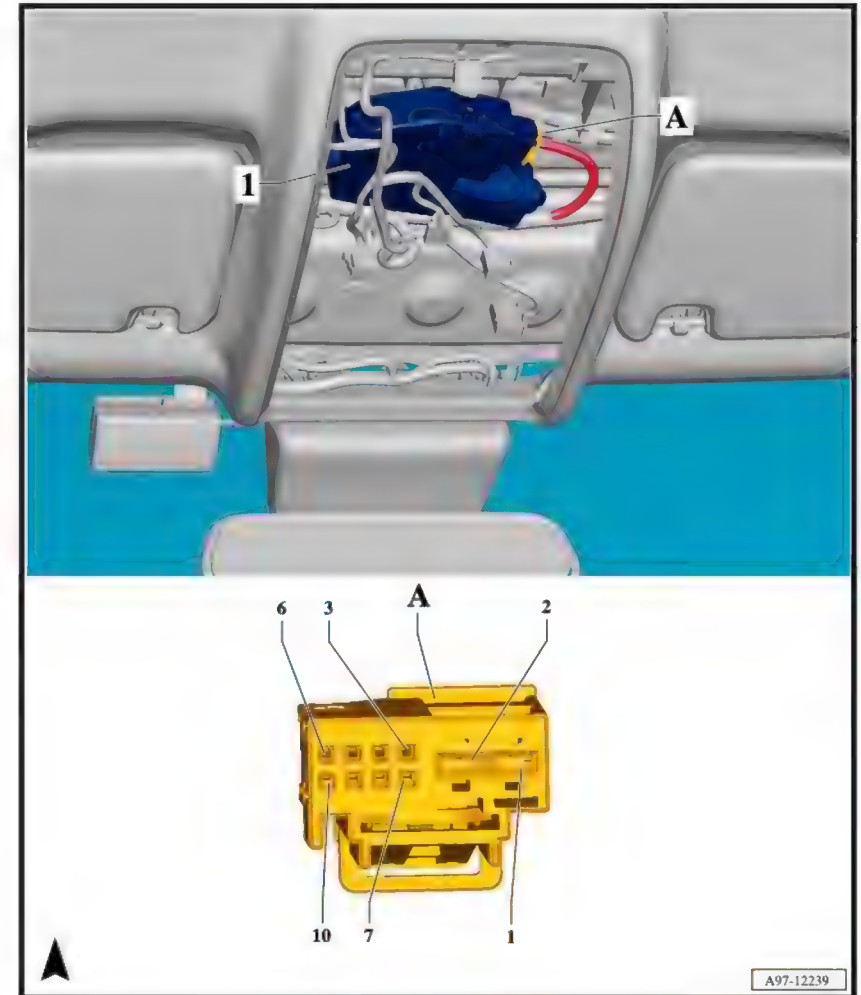
A - 10-Pin Connector -T10ap-, black



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Pin Arrangements Power Sunroof Control Module -J245-, panorama sunroof

-T10ap- (A)	Designation		-T10ap- (A)	Designation
1	LIN-Bus, (B577) LIN bus connection (in roof wiring harness) (B699) LIN-Bus Connection 4 (in main wiring harness) Comfort System Central Control Module -J393-		6	Sunroof Button -E325-
2			7	Sunroof Button -E325-
3	Sunroof Button -E325-		8	
4	Sunroof Button -E325-		9	Terminal 31, to (178) Ground connection (in sunroof wiring harness) (369) Ground Connection 4 (in main wiring harness) (44) Ground Connection (on left lower A-pillar)
5	6-Pin Connector -T6g-		10	Terminal 30, from Fuse Panel B -SB-

Back to overview ⇒ [o1.1 f Control Modules", page 1](#) .

1.35 Fresh Air Blower Control Module -J126-

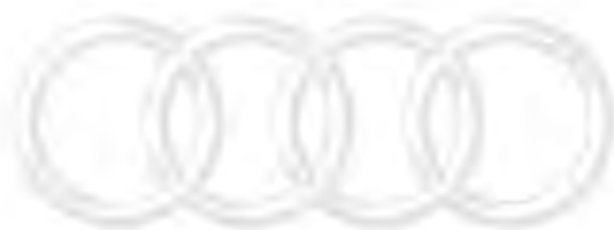
Component Location

Behind glove compartment -1-.

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1 - Fresh Air Blower Control Module -J126-

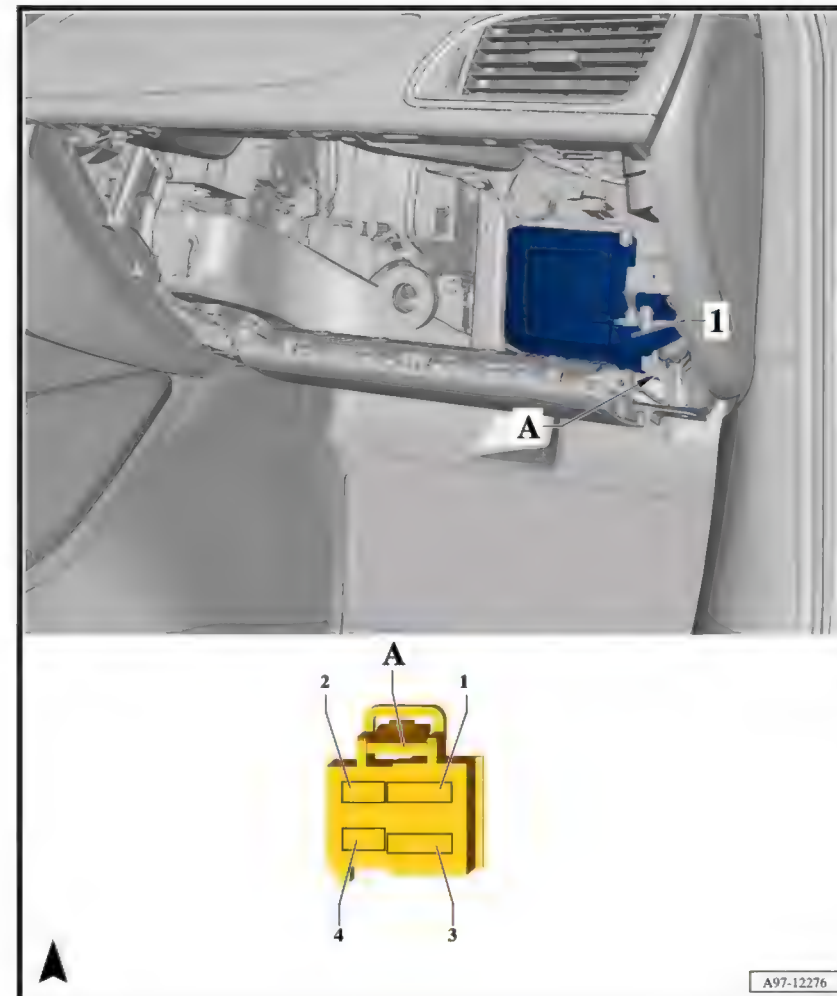
A - 4-Pin Connector -T4cb-, black



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Pin Arrangements Fresh Air Blower Control Module -J126-

-T4cb- (A)	Designation
1	Terminal 31, to 81 Ground Connection 1 (in instrument panel wiring harness)
	45 Ground Connection (behind instrument panel, center)

-T4cb- (A)	Designation
2	
3	Terminal 30, from Fuse Panel C -SC-
4	Climatronic Control Module -J255-

Back to overview ⇒ [o1.1 f Control Modules", page 1](#) .

1.36 Active Steering Motor -V477-/ Active steering safety lock actuator -F437-

Component Location

On steering column -1- and -2-.



1 - Active Steering Motor -V477-

2 - Active steering safety lock actuator -F437-

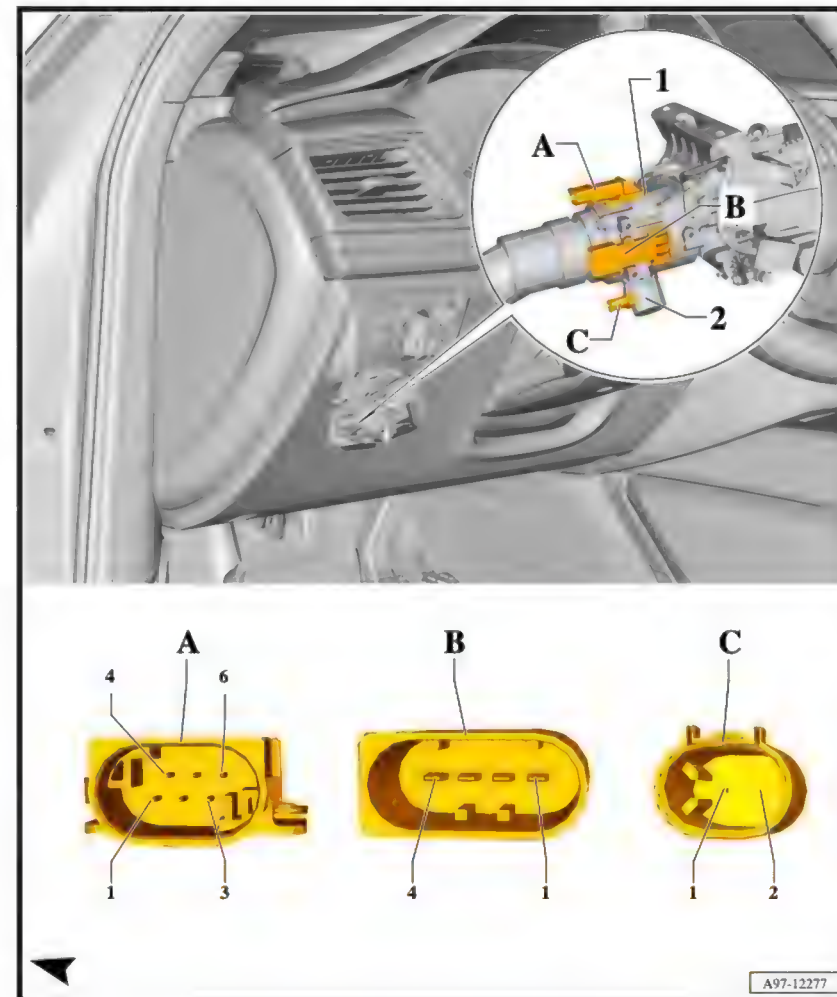
A - 6-Pin Connector -T6m-, black

B - 4-Pin Connector -T4ag-, black

C - 2-Pin Connector -T2bk-, black



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Pin Arrangements Active Steering Motor -V477-/Active steering safety lock actuator -F437-

-T6m- (A)	Designation	-T6m- (A)	Designation
1	Active Steering Control Module -J792-	4	Active Steering Control Module -J792-
2	Active Steering Control Module -J792-	5	Active Steering Control Module -J792-
3	Active Steering Control Module -J792-	6	Active Steering Control Module -J792-

-T4ag- (B)	Designation	-T2bk- (C)	Designation
1	Active Steering Control Module -J792-	1	Active Steering Control Module -J792-
2	Active Steering Control Module -J792-	2	Active Steering Control Module -J792-
3	Active Steering Control Module -J792-		
4	Terminal 31, shielding ground		

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1.37 Catalytic converter heating control module 1 -J1021-

Component Location

In plenum chamber, center -1-.

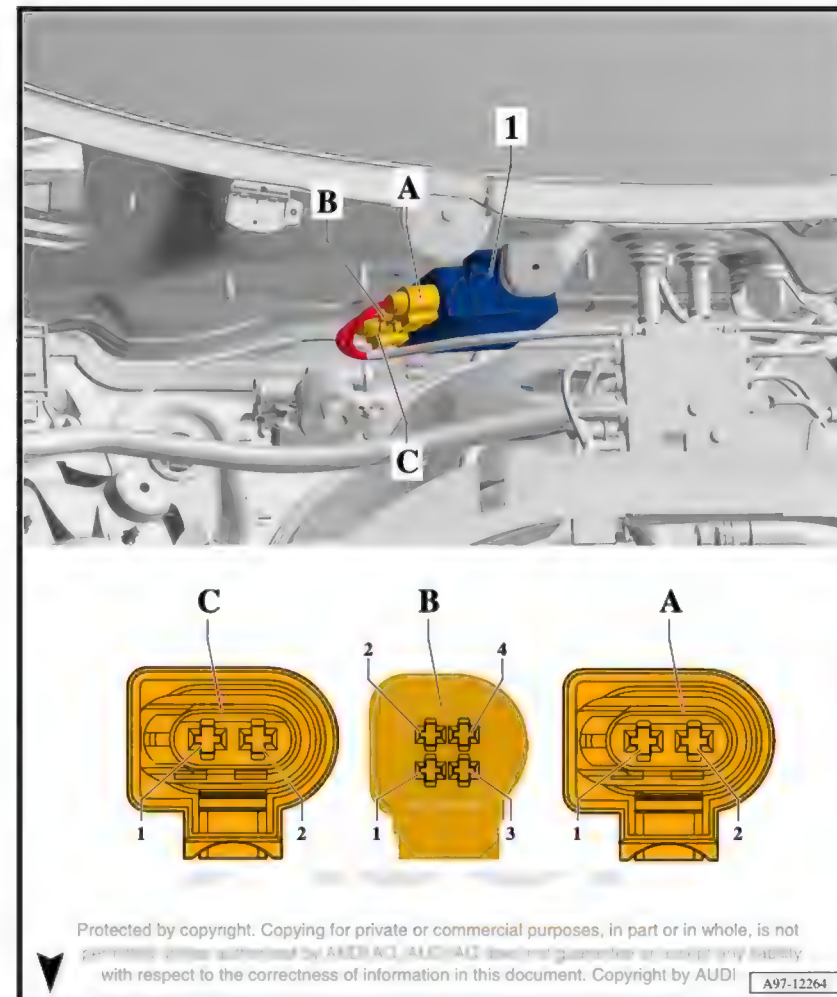
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1 - Catalytic converter heating control module 1 -J1021-

A - 2-Pin Connector -T2qc-, black



B - 4-Pin Connector -T4gk-, black

C - 2-Pin Connector -T2qb-, brown



Pin Arrangements Catalytic converter heating control module 1 -J1021-

-T4gk- (B)	Designation		-T4gk- (B)	Designation
1	CAN-Bus powertrain, High (E123) Powertrain CAN-Bus High Connection 1 (in engine wiring harness)		3	CAN-Bus powertrain, Low (E124) Powertrain CAN-Bus Low Connection 1 (in engine wiring harness)

-T4gk- (B)	Designation	-T4gk- (B)	Designation
2	Terminal 31, to  Ground connection on engine, right	4	Terminal 87, from  Connection 2 (87a) (in engine compartment wiring harness)

-T2qc- (A)	Designation	-T2qb- (C)	Designation
1	Catalytic converter heater 1 -Z119-	1	Terminal 30 Wire Junction -TV2- Catalytic converter heating fuse -S351-
2	Catalytic converter heater 2 -Z120-	2	Terminal 30 Wire Junction -TV2- Catalytic converter heating fuse 2 -S354-

Back to overview [⇒ o1.1 f Control Modules", page 1 .](#)

1.38 Component Location Control Module for Information Electronics 1 -J794-

[⇒ L1.38.1 ocation Control Module for Information Electronics 1J794, through model year 2014, MMI Navigation plus \(7T6\)", page 59](#)

[⇒ L1.38.2 ocation Control Module for Information Electronics 1J794, from model year 2015, radio system \(8DN, 8DP, 8DS\)", page 62](#)

[⇒ L1.38.3 ocation Control Module for Information Electronics 1J794, from model year 2015, MMI Navigation plus \(I8H\)", page 64](#)

1.38.1 Component Location Control Module for Information Electronics 1 -J794-, through model year 2014, MMI Navigation plus (7T6)

Component Location

In instrument panel, center -1-.

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1 - Control Module for Information Electronics 1 -J794-

A - 2-Pin Connector -T2at-, GSM, bordeaux, Roof Antenna -R216- , Telephone Antenna -R65-

B - Quad-connector

C - 8-Pin Connector -T8g-, black

D - 12-Pin Connector -T12g-, blue

E - 12-Pin Connector -T12f-, green

F - 8-Pin Connector -T8h-, brown

G - 2-Pin Connector -T2aw-, MOST-Bus, black

H - 2-Pin Connector -T2as-, FBAS, green, TV Tuner -R78- /DVD Changer -R161-

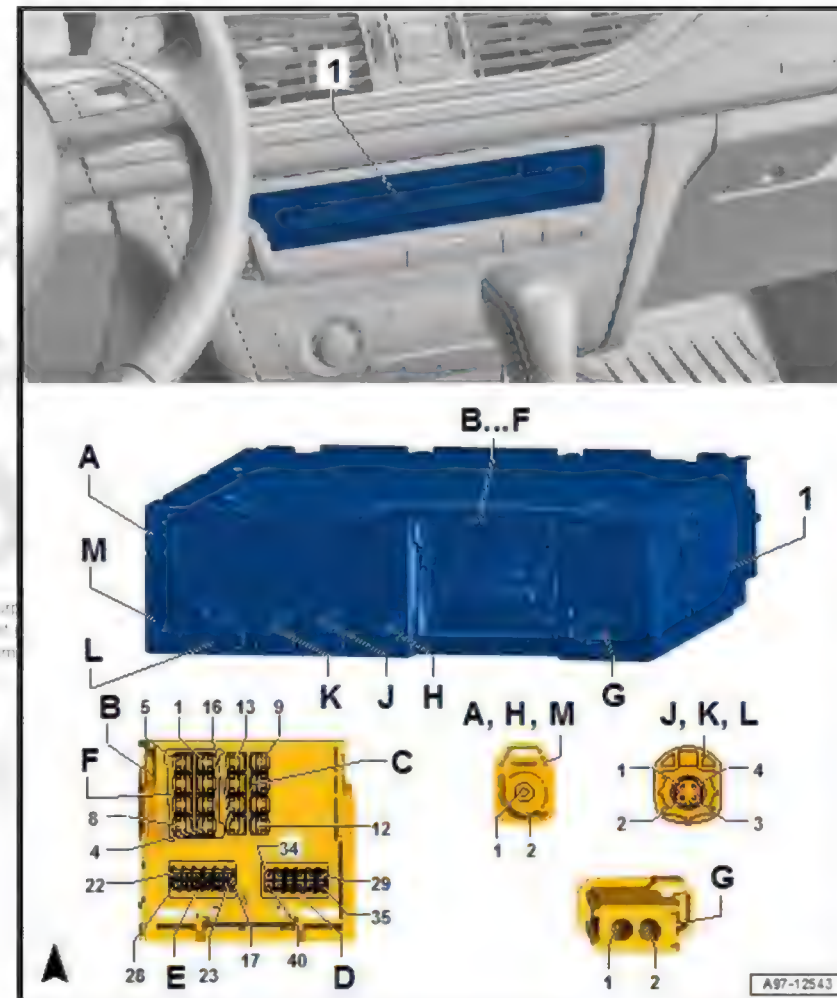
J - 4-Pin Connector -T4dc-, gray, Front Information Display Control Head -J685-

K - 4-Pin Connector -T4aa-, brown, External Audio Source Connector -R199-

L - Not used

M - 2-Pin Connector -T2au-, GPS, blue, Roof Antenna -R216- , Navigation System Antenna -R50-

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Pin Arrangements Control Module for Information Electronics 1 -J794-

-T8g- (C)	Designation	-T8h- (F)	Designation
9	Telephone Baseplate -R126-	1	
10	Multimedia Control Head -E380-	2	
11	Multimedia Control Head -E380-	3	Multimedia Control Head -E380-

-T8g- (C)	Designation		-T8h- (F)	Designation
12	Terminal 31, to (372) Ground Connection 7 (in main wiring harness) (687) Ground Connection 1 (on center tunnel)		4	
13	Telephone Baseplate -R126-		5	Telephone Baseplate -R126- (B478) Connection 14 (in main wiring harness) Chip Card Reader Control Module -J676-, Japan only
14	Multimedia Control Head -E380-		6	Multimedia Control Head -E380-
15	Terminal 30, from (B318) Positive connection 4 (30a) in main wiring harness Fuse Panel C -SC-		7	Ringbreak Diagnosis Wire (B444) OBD connection 1 (in main wiring harness)
16			8	

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-T12g- (E)	Designation		-T12f- (D)	Designation
1			1	External Audio Source Connector -R199-
2	Right Front Microphone -R141-		2	External Audio Source Connector -R199-
3	Right Front Microphone -R141-		3	External Audio Source Connector -R199-
4	Chip Card Reader Control Module -J676-, Japan only		4	External Audio Source Connector -R199-
5	Rear View Camera System Control Module -J772- Peripheral Camera Control Module -J928-		5	External Audio Source Connector -R199-
6	Chip Card Reader Control Module -J676-, Japan only		6	External Audio Source Connector -R199-
7			7	External Audio Source Connector -R199-
8	Left Front Microphone -R140-		8	Ground-shielding External Audio Source Connector -R199-
9	Left Front Microphone -R140-		9	External Audio Source Connector -R199-
10	Chip Card Reader Control Module -J676-, Japan only		10	External Audio Source Connector -R199-
11	Rear View Camera System Control Module -J772- Peripheral Camera Control Module -J928-		11	External Audio Source Connector -R199-
12	Chip Card Reader Control Module -J676-, Japan only		12	External Audio Source Connector -R199-

Back to overview ⇒ [o1.1 f Control Modules", page 1](#) .

1.38.2 Component Location Control Module for Information Electronics 1 -J794-, from model year 2015, radio system (8DN, 8DP, 8DS)

Component Location

In instrument panel, center -1-.



Note

The position of the pin connectors on control module for information electronics 1 may differ from the illustration. -J794-

1 - Control Module for Information Electronics 1 -J794-

A - Not used

B - 2-Pin Connector -T2ax-, DAB, black, Antenna Amplifier 3 -R112-, Digital Radio Antenna -R183-

B - 2-Pin Connector -T2av-, SAT, brown, Roof Antenna -R216-, Satellite Antenna -R170-, only USA

C - 12-Pin Connector -T12e-, green

D - 12-Pin Connector -T12d-, gray

E - 8-Pin Connector -T8f-, black

F - 8-Pin Connector -T8e-, brown

G - 12-Pin Connector -T12c-, blue

H - Quad-connector

J - 2-Pin Connector -T2aw-, MOST-Bus, black

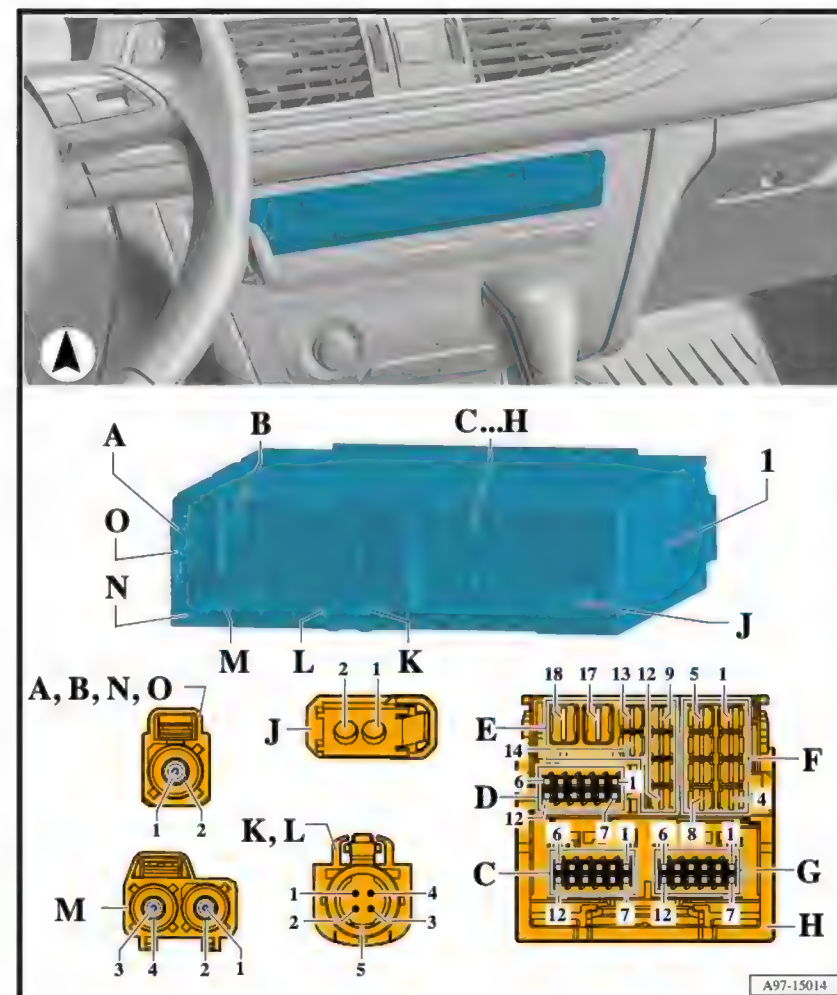
K - 4-Pin Connector -T4df-, purple, Front Information Display Control Head -J685-

L - 4-Pin Connector -T4z-, brown, External Audio Source Connector -R199-


M - 4-Pin Connector -T4ab-, AM/FM, white, Antenna Amplifier -R24-/Antenna Amplifier 2 -R111-


N - 2-Pin Connector -T2au-, GPS, blue, Roof Antenna -R216-, Navigation System Antenna -R50-

O - Not used



Pin Arrangements Control Module for Information Electronics 1 -J794-, from model year 2015, radio system (8DN, 8DP, 8DS)

-T8f- (E)	Designation		-T8e- (F)	Designation
9	Subwoofer -R211-		1	Right Rear Treble Speaker -R16- Right Rear Bass Speaker -R17-
10	Center speaker -R208-		2	Right Front Speaker -R3- Right Front Bass Speaker -R23-
11			3	Left Front Speaker -R2- Left Front Bass Speaker -R21-
12			4	Left Rear Treble Speaker -R14- Left Rear Bass Speaker -R15-
13	Subwoofer -R211-		5	Right Rear Treble Speaker -R16- Right Rear Bass Speaker -R17-
14	Center speaker -R208-		6	Right Front Speaker -R3- Right Front Bass Speaker -R23-
17	Terminal 31, to  Ground Connection 7 (in main wiring harness)  Ground Connection 1 (on center tunnel)		7	Left Front Speaker -R2- Left Front Bass Speaker -R21-
18	Terminal 30, from Fuse Panel F -SF-		8	Left Rear Treble Speaker -R14- Left Rear Bass Speaker -R15-

-T12c- (G)	Designation		-T12d- (D)	Designation
1	Multimedia Control Head -E380-		1	
2	Multimedia Control Head -E380-		2	
3			3	
4	Left Front Microphone -R140-		4	
5	Rear View Camera System Control Module -J772- Peripheral Camera Control Module -J928-		5	
6	Telephone Baseplate -R126-		6	
7	Multimedia Control Head -E380-		7	Ringbreak Diagnosis Wire  OBD connection 1 (in main wiring harness)
8	Multimedia Control Head -E380-		8	
9	Multimedia Control Head -E380-		9	
10	Right Front Microphone -R141-		10	

-T12c- (G)	Designation		-T12d- (D)	Designation
11	Rear View Camera System Control Module -J772- Peripheral Camera Control Module -J928-		11	
12	Ground-shielding for Left Front Microphone -R140-/ Right Front Microphone -R141-		12	Telephone Baseplate -R126- Amplifier for Telephone -R86-

-T12e- (C)	Designation		-T12e- (C)	Designation
1	External Audio Source Connector -R199-		7	External Audio Source Connector -R199-
2	External Audio Source Connector -R199-		8	Ground-shielding for External Audio Source Connector -R199-
3	External Audio Source Connector -R199-		9	External Audio Source Connector -R199-
4	External Audio Source Connector -R199-		10	External Audio Source Connector -R199-
5	External Audio Source Connector -R199-		11	External Audio Source Connector -R199-
6	External Audio Source Connector -R199-		12	External Audio Source Connector -R199-

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1.38.3 Component Location Control Module for Information Electronics 1 -J794-, from model year 2015, MMI Navigation plus (I8H)

Component Location

In instrument panel, center -1-.

1 - Control Module for Information Electronics 1 -J794-

A - 2-Pin Connector -T2at-, LTE, bordeaux, LTE Antenna 1 -R297-

B - 2-Pin Connector -T2ax-, DAB, black, Antenna Amplifier 3 -R112-, Digital Radio Antenna -R183-

B - 2-Pin Connector -T2av-, SAT, brown, Roof Antenna -R216- ,Satellite Antenna -R170-, only USA

C - 12-Pin Connector -T12f-, green

D - 12-Pin Connector -T12d-, gray

E - 8-Pin Connector -T8f-, black

F - 8-Pin Connector -T8e-, brown

G - 12-Pin Connector -T12g-, blue

H - Quad-connector

J - 2-Pin Connector -T2aw-, MOST-Bus, black

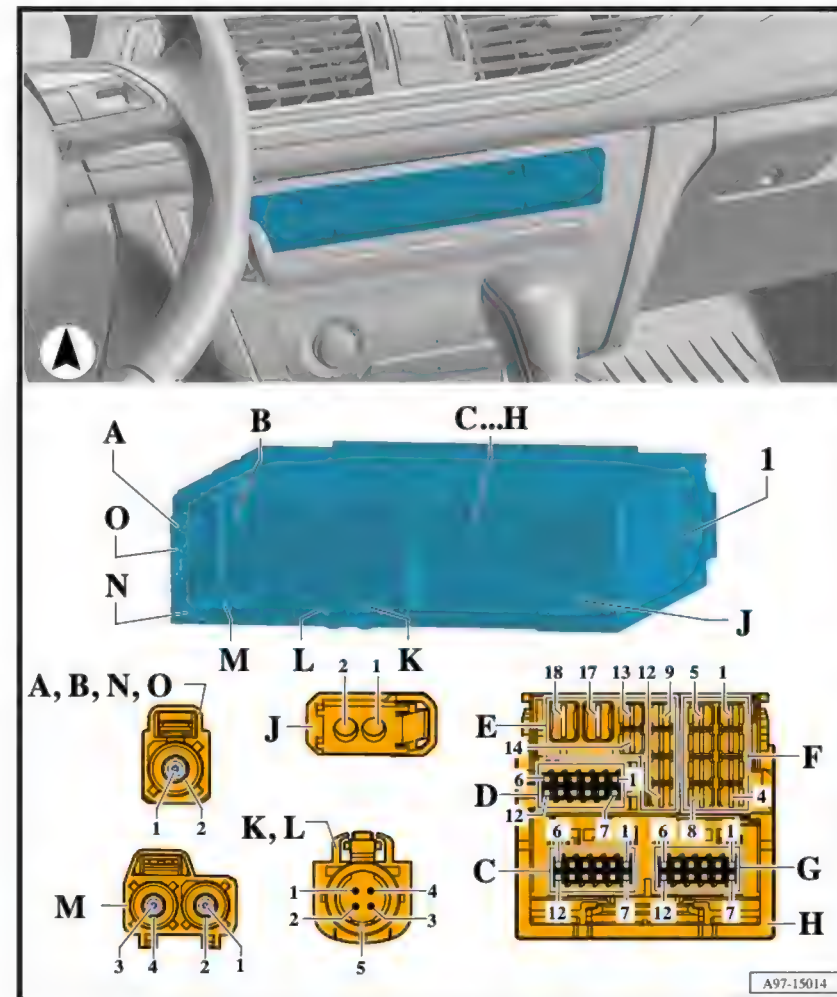
K - 4-Pin Connector -T4df-, gray, Front Information Display Control Head -J685-

L - 5-Pin Connector -T5bq-, brown, USB Connection Baseplate -R193-

M - 4-Pin Connector -T4ab-, AM/FM, white, Antenna Amplifier -R24-/Antenna Amplifier 2 -R111-



N - 2-Pin Connector -T2au-, GPS, blue, Roof Antenna -R216- , Navigation System Antenna -R50-




O - 2-Pin Connector -T2at-, LTE, bordeaux, LTE Antenna 2 -R306-




Pin Arrangements Control Module for Information Electronics 1 -J794-, from model year 2015, MMI Navigation plus (I8H)

-T8f- (E)	Designation	-T8e- (F)	Designation
9	Subwoofer -R211-	1	Right Rear Treble Speaker -R16- Right Rear Bass Speaker -R17-
10	Center speaker -R208-	2	Right Front Speaker -R3- Right Front Bass Speaker -R23-

-T8f- (E)	Designation		-T8e- (F)	Designation
11			3	Left Front Speaker -R2- Left Front Bass Speaker -R21-
12			4	Left Rear Treble Speaker -R14- Left Rear Bass Speaker -R15-
13	Subwoofer -R211-		5	Right Rear Treble Speaker -R16- Right Rear Bass Speaker -R17-
14	Center speaker -R208-		6	Right Front Speaker -R3- Right Front Bass Speaker -R23-
17	Terminal 31, to  Ground Connection 7 (in main wiring harness)  Ground Connection 1 (on center tunnel)		7	Left Front Speaker -R2- Left Front Bass Speaker -R21-
18	Terminal 30, from Fuse Panel F -SF-		8	Left Rear Treble Speaker -R14- Left Rear Bass Speaker -R15-

-T12f- (C)	Designation		-T12d- (D)	Designation
1	External Audio Source Connector -R199-		1	Front Information Display Control Head -J685-
2	External Audio Source Connector -R199-		2	Multimedia Control Head -E380-
3	External Audio Source Connector -R199-		3	Ringbreak Diagnosis Wire  OBD connection 1 (in main wiring harness)
4			4	Multimedia Control Head -E380-
5			5	Telephone Baseplate -R126-  Connection 14 (in main wiring harness)
6			6	CAN-Bus Instrument Cluster, High  Instrument Cluster CAN Bus - High Connection 1 (in main wiring harness)
7	External Audio Source Connector -R199-		7	Front Information Display Control Head -J685-
8	Ground-shielding		8	Multimedia Control Head -E380-
9			9	Multimedia Control Head -E380-
10			10	Multimedia Control Head -E380-
11			11	Telephone Baseplate -R126-

-T12f- (C)	Designation		-T12d- (D)	Designation
12			12	CAN-Bus Instrument Cluster, Low  Instrument Cluster CAN Bus - Low Connection 1 (in main wiring harness)

-T12g- (G)	Designation		-T12g- (G)	Designation
1	Left Front Microphone -R140-		7	Left Front Microphone -R140-
2	Right Front Microphone -R141-		8	Right Front Microphone -R141-
3			9	
4			10	
5	Control module for emergency call module and communication unit -J949-		11	
6	Rear View Camera System Control Module -J772- Peripheral Camera Control Module -J928-		12	Rear View Camera System Control Module -J772- Peripheral Camera Control Module -J928-

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1.39 Memory Seat/Steering Column Adjustment Control Module -J136-

Component Location

at bottom of seat -1-.



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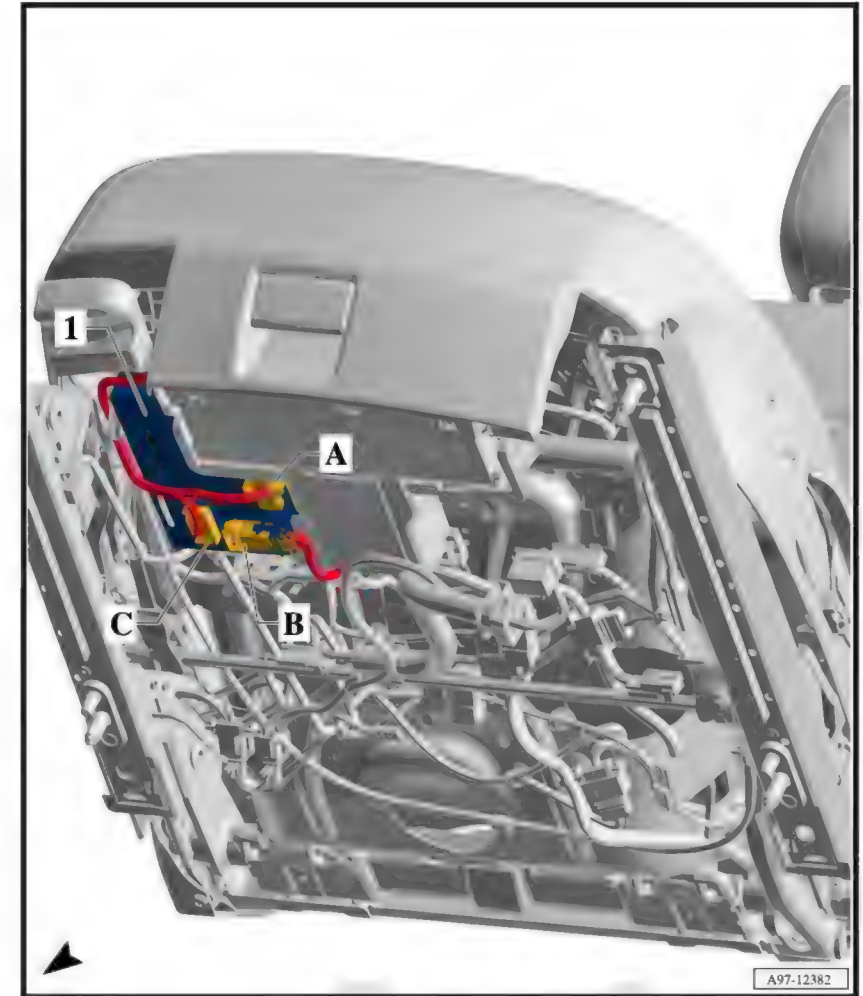
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1 - Memory Seat/Steering Column Adjustment Control Module -J136-

A - 12-Pin Connector -T12x-, black





B - 32-Pin Connector -T32m-, gray


C - 16-Pin Connector -T16q-, black









Pin Arrangements Memory Seat/Steering Column Adjustment Control Module -J136-

-T12x- (A)	Designation	-T12x- (A)	Designation
1	Driver's Backrest Adjustment Motor -V45-	7	Driver's Seat Inclination Adjustment Motor -V243-
2	Driver seat depth adjustment motor -V256-	8	Driver's Seat Height Adjustment Motor -V245-
3	Driver's Seat Height Adjustment Motor -V245-	9	Driver's Seat fore/aft Adjustment Motor -V28-
4	Driver seat depth adjustment motor -V256-	10	Driver's Seat Inclination Adjustment Motor -V243-

-T12x- (A)	Designation		-T12x- (A)	Designation
5	Driver's Seat fore/aft Adjustment Motor -V28-		11	Terminal 30, from Driver's Power Seat Adjustment Circuit Breaker 1 -S44-  Positive connection 2 (30a) (in main wiring harness) Safety fuse 3 -S133-
6	Driver's Backrest Adjustment Motor -V45-		12	Terminal 31, to  Ground Connection 1 (in power seat wiring harness)  Ground Connection 6 (in main wiring harness)  Ground connection under driver seat

-T32m- (B)	Designation		-T32m- (B)	Designation
1			17	
2			18	
3	Driver's Door Control Module -J386-		19	
4			20	
5	Driver side massage function button -E670-		21	
6	Seat Fore/Aft Adjustment Button -E418- Driver seat switch module 2 -E667-		22	Driver's Backrest Adjustment Switch -E96- Driver's Seat Adjustment Control Head -E470-
7	Seat Height Adjustment Button -E424- Driver seat switch module 2 -E667-		23	Driver's Seat Height Adjustment Switch -E364- Driver's Seat Adjustment Control Head -E470-
8			24	Driver's Seat Tilt Adjustment Switch -E222- Driver's Seat Adjustment Control Head -E470-
9			25	Driver's Seat Fore/Aft Switch -E363- Driver's Seat Adjustment Control Head -E470-
10	Driver's Seat Adjustment Control Head -E470-		26	
11			27	
12			28	Backrest Adjustment Button -E425- Driver seat switch module 2 -E667-
13			29	
14			30	
15	Comfort System CAN-Bus Low  CAN-Bus Low Connection - Convenience (in driver's seat adjustment wiring harness)		31	

-T32m- (B)	Designation		-T32m- (B)	Designation
16	Comfort System CAN-Bus High  CAN-Bus High Connection - Convenience (in driver's seat adjustment wiring harness)		32	

-T16q- (C)	Designation		-T16q- (C)	Designation
1	Driver's Seat Side Bolster Heater -Z31-		9	 Connection 3 (in driver's seat wiring harness) Driver Seat Backrest Blower Fan -V388- Driver Seat Backrest Blower Fan 2 -V417-
2	Driver's Seat Heating Element -Z6-		10	 Connection 4 (in driver's seat wiring harness) Driver Seat Backrest Blower Fan -V388- Driver Seat Backrest Blower Fan 2 -V417-
3	 Connection 2 (in driver's seat wiring harness) Driver Seat Cushion Blower Fan -V390- Driver Seat Cushion Blower Fan 2 -V419-		11	
4			12	 Ground Connection 2 (in heated seats wiring harness)
5			13	
6			14	Left Front Seat Temperature Sensor -G344-
7	Left Front Seat Temperature Sensor -G344-		15	
8	 Connection 1 (in driver's seat wiring harness) Driver Seat Cushion Blower Fan -V390- Driver Seat Cushion Blower Fan 2 -V419-		16	

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1.40 Seat Occupied Recognition Control Module -J706-

Component Location

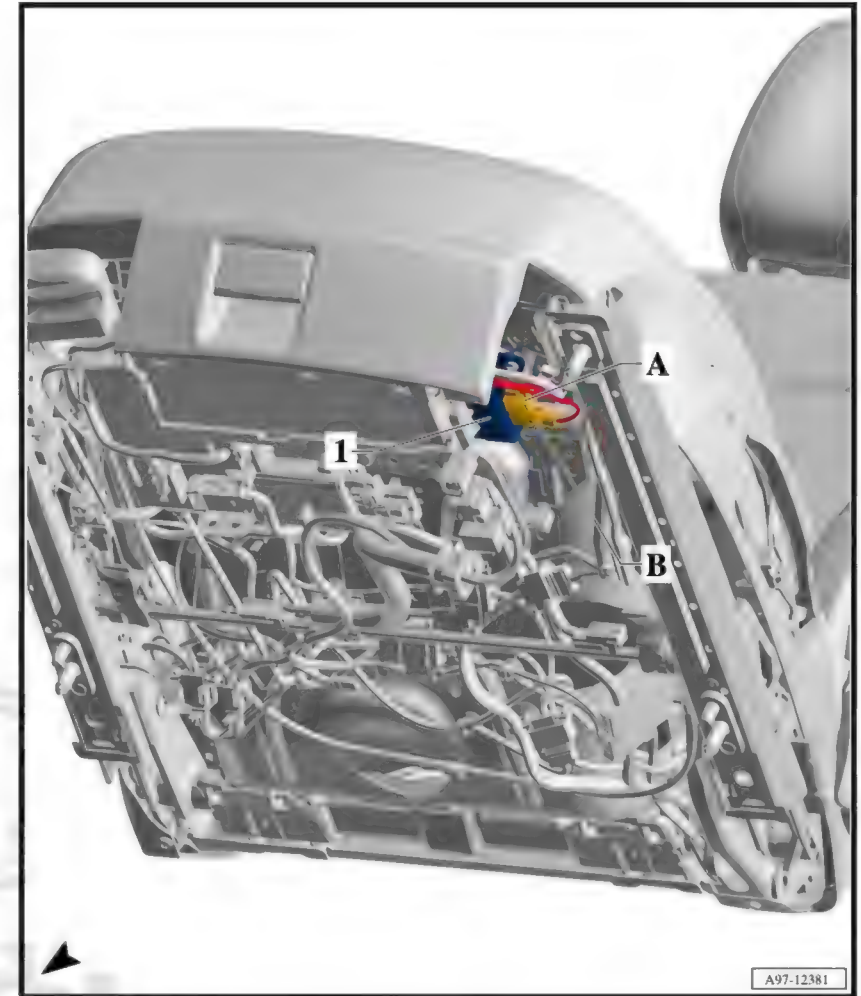
at bottom of seat -1-.

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1 - Seat Occupied Recognition Control Module -J706-



A - 3 Pin Connector -T3-, black

B - Connector Seat Occupied Recognition Pressure Sensor -G452-



Pin Arrangements Seat Occupied Recognition Control Module -J706-

-T3- (A)	Designation
1	Terminal 30, from  Positive connection 6 (15a) in main wiring harness Fuse Panel B -SB-
2	Airbag Control Module -J234-

-T3- (A)	Designation
3	Terminal 31, to  Ground Connection 2 (in airbag wiring harness)  Airbag Ground Connection (in main wiring harness) Airbag Control Module -J234-

Back to overview ⇒ [o1.1 f Control Modules", page 1](#) .

1.41 Tire Pressure Monitoring Control Module -J502-

Component Location

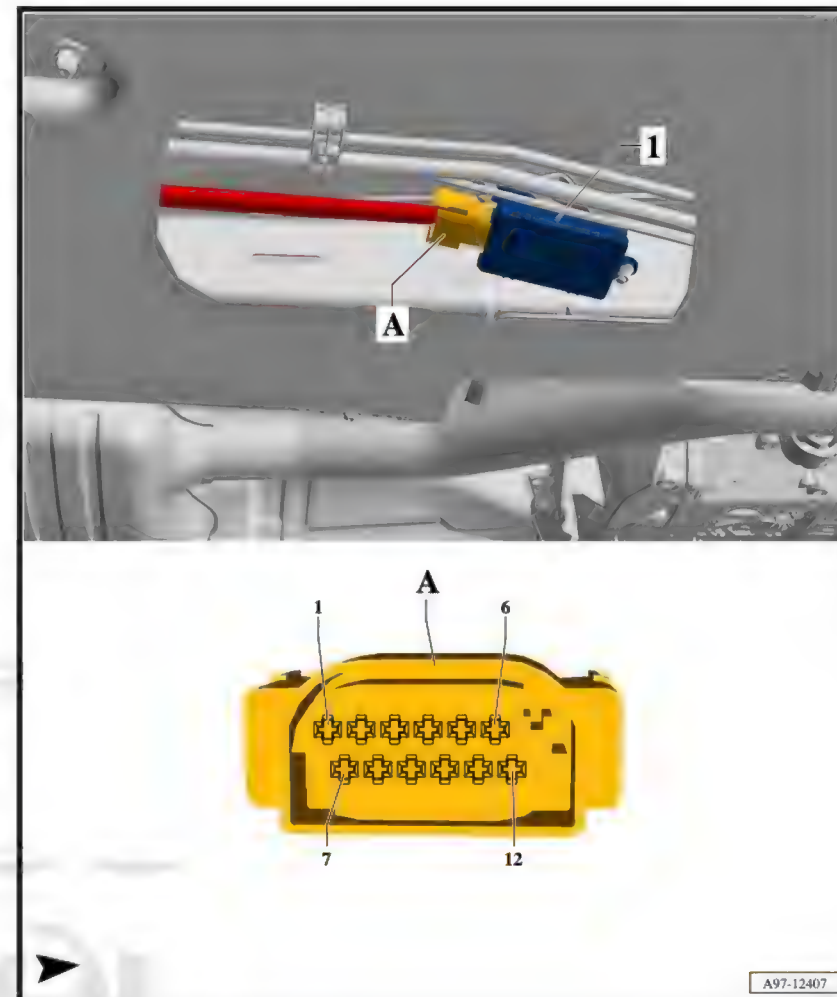
at front right under floor -1-.

For RS models only.

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1 - Tire Pressure Monitoring Control Module -J502-

A - 12-Pin Connector -T12ao-, black



Pin Arrangements Tire Pressure Monitoring Control Module -J502-

-T12ao- (A)	Designation	-T12ao- (A)	Designation
1		7	CAN-Bus Instrument Cluster, High Wiring junction for instrument cluster CAN-Bus, High -TV36-
2		8	CAN-Bus Instrument Cluster, Low Wiring junction for instrument cluster CAN Bus, Low -TV40-

-T12ao- (A)	Designation		-T12ao- (A)	Designation
3	(B605) Connection 1 (in passenger compartment wiring harness) to tire pressure monitoring antennas		9	Left Front Tire Pressure Monitoring Antenna -R59-
4	Right Front Tire Pressure Monitoring Antenna -R60-		10	Left Rear Tire Pressure Monitoring Antenna -R61-
5	Right Rear Tire Pressure Monitoring Antenna -R62-		11	(B606) Connection 2 (in passenger compartment wiring harness) to tire pressure monitoring antennas
6	Terminal 30, from Fuse Panel B -SB-		12	Terminal 31, to (380) Ground Connection 15 (in main wiring harness) (43) Ground Connection (on right lower A-pillar)

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1.42 Control module for emergency call module and communication unit -J949-

Component Location

Behind glove compartment.



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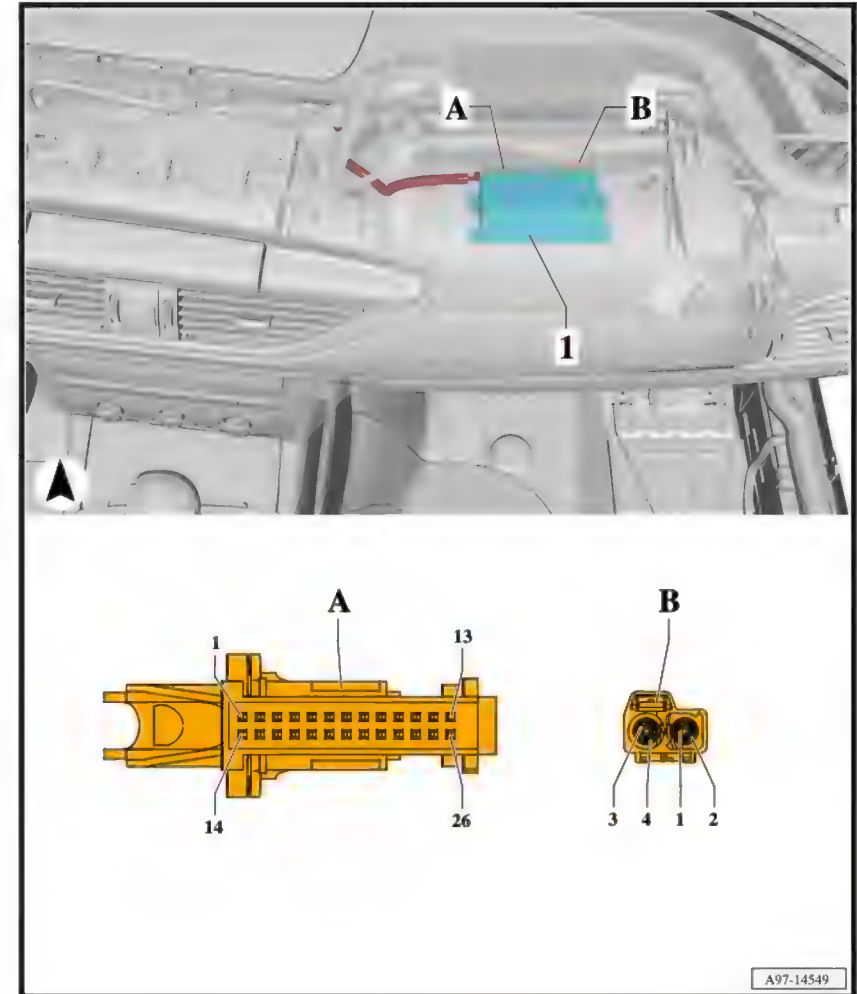
1 - Control module for emergency call module and communication unit -J949-

A - 26-Pin Connector -T26c-, black

B - 4-Pin Connector -T4gs-, purple



- ❑ Receptacle 1 of Emergency Call Module Antenna -R263-
- ❑ Receptacle 2 of Navigation System Antenna -R50-

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Pin Arrangements Control module for emergency call module and communication unit -J949-

-T26c- (A)	Designation		-T26c- (A)	Designation
1	Terminal 30, from Fuse Carrier 3 -ST3- in Fuse Panel F -SF-		14	Comfort CAN-Bus High, to Wiring junction for convenience CAN bus, High -TV34- ¹⁾ CAN-Bus Hybrid High, to B776 Hybrid CAN bus high connection 1 (in main wiring harness) ²⁾

-T26c- (A)	Designation		-T26c- (A)	Designation
2	Comfort CAN-Bus Low, to Wiring junction for convenience CAN bus, Low -TV38- ¹⁾ CAN-Bus Hybrid Low, to  Hybrid CAN bus high connection 1 (in main wiring harness) ²⁾		15	
3	Airbag Control Module -J234-		16	
4	Emergency call module microphone -R321-		17	Emergency call module microphone -R321-
5	Control Module for Information Electronics 1 -J794-		18	Control Module for Information Electronics 1 -J794-
6	Emergency Call Button -E276- in Front roof module -WX3-		19	Emergency Call Button -E276- in Front roof module -WX3-
7	Emergency Call Button -E276- in Front roof module -WX3-		20	Emergency Call Button -E276- in Front roof module -WX3-
8	Control Module for Information Electronics 1 -J794-		21	Emergency call module speaker -R335-
9	Emergency call module speaker -R335-		22	
10			23	
11			24	
12			25	
13	Emergency Call Button -E276- in Front roof module -WX3-		26	Terminal 31, to  Ground Connection (behind instrument panel, center)

♦ ¹⁾ Only for Vehicles without High-Voltage System (0K0)

♦ ²⁾ Only for Vehicles with High-Voltage System (0K3)

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1.43 High voltage heater (PTC) control module -J848-, from Week 47/2016

Component Location

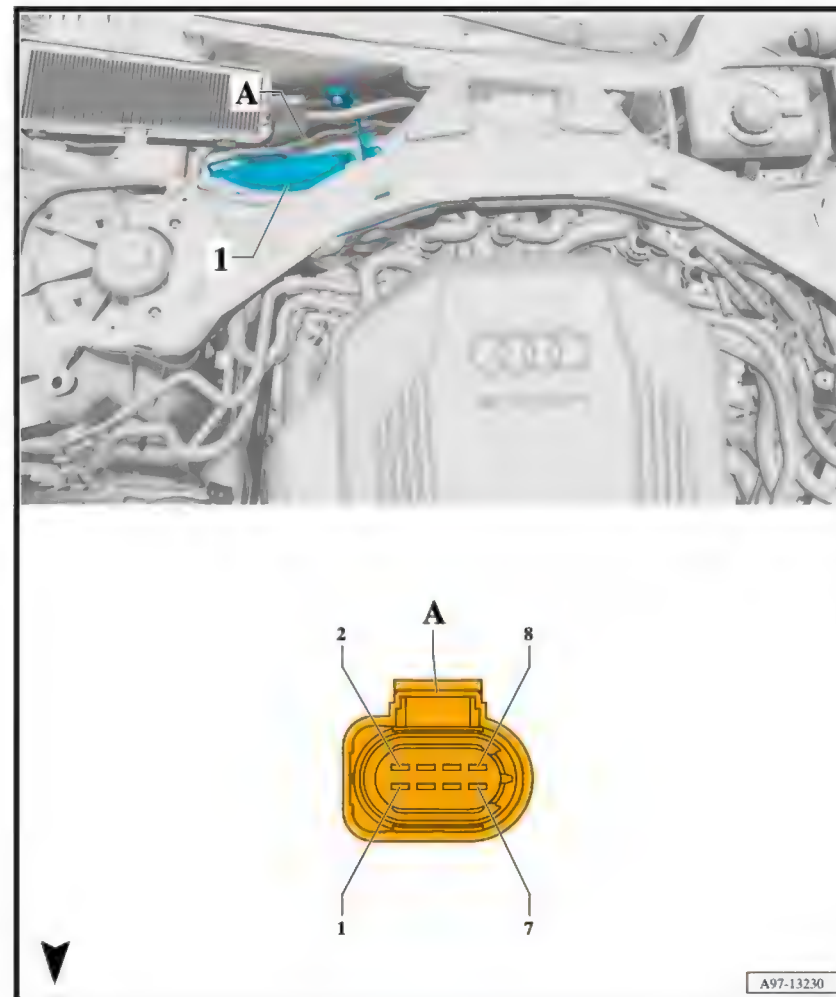
In the High Voltage Heater (PTC) -Z115- integrated in plenum chamber, right.

1 - High voltage heater (PTC) control module -J848-

□ with High Voltage Heater (PTC) -Z115-




A - 8-Pin Connector -T8bn-, black

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Pin Arrangements High voltage heater (PTC) control module -J848-

-T8bn- (A)	Designation	-T8bn- (A)	Designation
1	Terminal 30, from Fuse Carrier 3 -ST3- in Fuse Panel F -SF-	5	Hybrid Battery Unit -AX1-, Pilot Line

-T8bn- (A)	Designation	-T8bn- (A)	Designation
2	Terminal 31, to  Ground Connection 23 (in main wiring harness),  Ground Connection (on left A-pillar)	6	
3		7	A/C Compressor Control Module -J842- , Pilot Line
4	LIN-Bus, to  LIN-Bus Connection 8 (in main wiring harness)	8	

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1.44 Brake Booster Vacuum Pump -V469-, from Week 47/2016

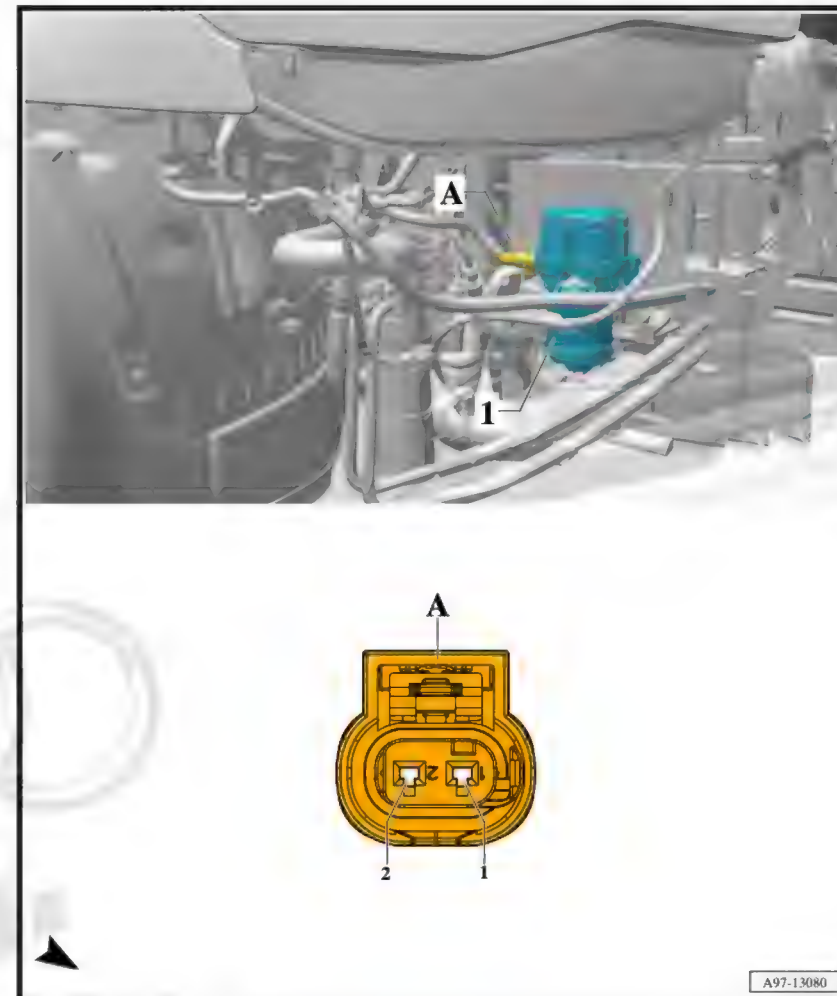
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Component Location

In the Lower Engine Compartment, Right Front



1 - Brake Booster Vacuum Pump -V469-

A - 2-Pin Connector -T2py-, gray



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Pin Arrangements Brake Booster Vacuum Pump -V469-

-T2py- (A)	Designation
1	Vacuum Pump Relay -J318-
2	Terminal 31, to  379 Ground Connection 14 (in main wiring harness),  43 Ground Connection (on right lower A-pillar)

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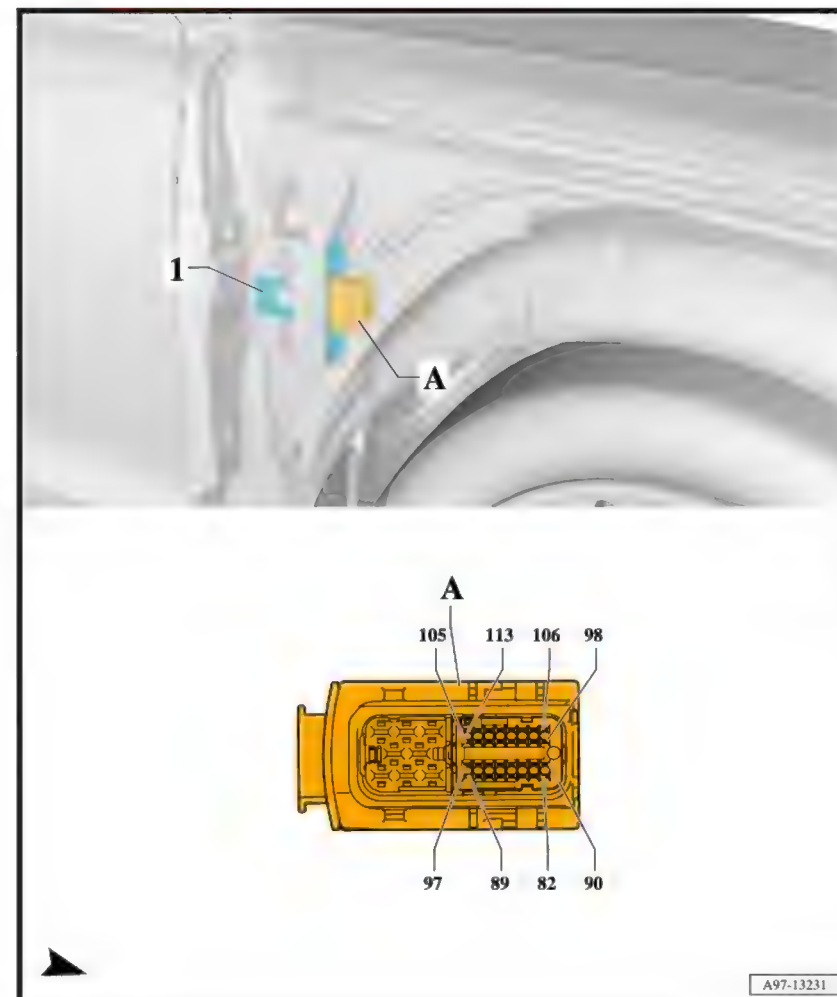
1.45 Thermal management control module -J1024- , from Week 47/2016

Component Location

In front right Wheel Housing, near A-pillar






1 - Thermal management control module -J1024-

A - 40-Pin Connector -T40a-, black



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Pin Arrangements Thermal management control module -J1024-

-T40a- (A)	Designation	-T40a- (A)	Designation
83	Thermal management coolant temperature sensor 6 -G907-	103	
84		104	LIN-Bus, to  LIN-Bus Connection 8 (in main wiring harness)
85		105	CAN-Bus Hybrid High, to  Hybrid CAN bus high connection 1 (in main wiring harness)
87	Thermal management coolant pump 2 -V618-	106	
88	Coolant Fan Control (FC) Control Module 2 -J671-	107	Thermal management coolant pumps relay -J1141-
89	Coolant Fan Control (FC) Control Module 2 -J671-	108	Refrigerant cut-off valve -V424-
90	Thermal management coolant temperature sensor 2 -G903-	109	
91		110	
92	Thermal management coolant temperature sensor 7 -G908-	111	Refrigerant Shut-Off Valve 5 -N643-
93		112	
94	Thermal management coolant pump 4 -V620-	113	CAN-Bus Hybrid Low, to  Hybrid CAN bus low connection 1 (in main wiring harness)
95		114	High Pressure Sensor -G65-
96	Coolant fan control module -J293-	115	Terminal 31, to  Ground Connection (in right luggage compartment)
97	Coolant fan control module -J293-	116	Terminal 30, from Fuse Carrier 3 -ST4- in Fuse Panel F -SF-
98	Thermal management coolant temperature sensor 1 -G902-	117	
99	Evaporator Vent Temperature Sensor -G263-	118	
100	Engine coolant level sensor 2 -G837-	119	
101	Terminal 31, to  Ground Connection 36 (in main wiring harness)	120	Refrigerant Shut-Off Valve 2 -N640-
102			

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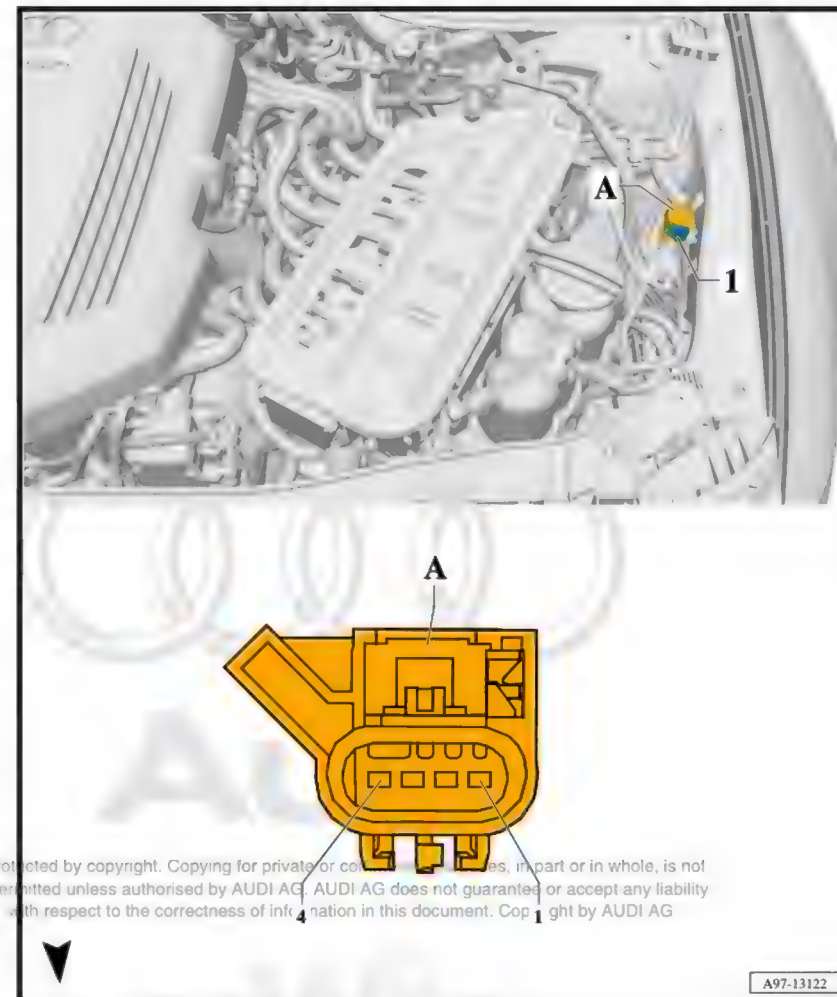
1.46 High Voltage System Maintenance Connector -TW-, from Week 47/2016

Component Location

Left beside the Electric Drive Power and Control Electronics -JX1-.

1 - High Voltage System Maintenance Connector -TW-

A - 4-Pin Connector -T4gy-, green



Pin Arrangements High Voltage System Maintenance Connector -TW-

-T4gy- (A)	Designation
1	Terminal 30, from Fuse Carrier 1 -ST1- in Fuse Panel F -SF-
2	Hybrid Battery Unit -AX1-
3	A/C Compressor Control Module -J842-, Pilot Line

-T4gy- (A)	Designation
4	Battery Regulation Control Module -J840-, Pilot Line

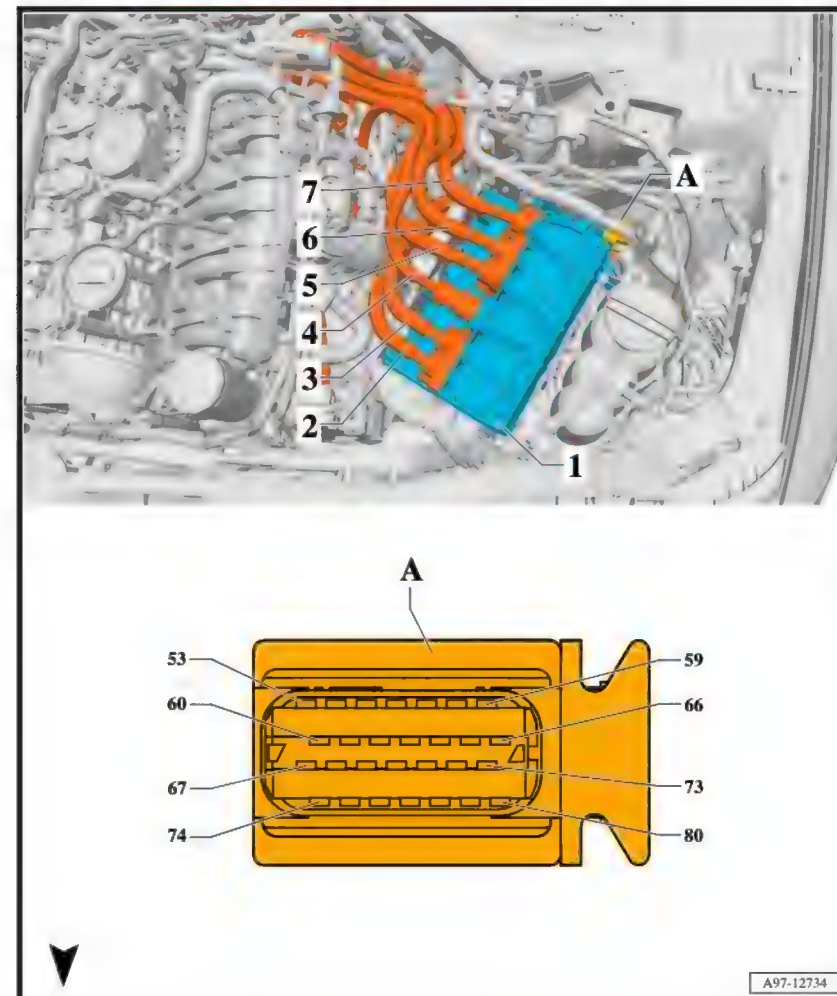
Back to overview ⇒ [F1.2 ront Modules Overview, High Voltage Vehicles \(0K3\) from KW 47/2016", page 4](#) .

1.47 Electric Drive Power and Control Electronics -JX1-, from Week 47/2016

Component Location




In front left in engine compartment.

- 1 - Electric Drive Power and Control Electronics -JX1-
 - with Voltage Converter -A19-, Drive Motor Inverter -A37-, Electrical Drive Control Module -J841-
- 2 - Hybrid Battery High Voltage Cable, Negative Terminal -P2-
- 3 - Hybrid Battery High Voltage Cable, Positive Terminal -P1-
- 4 - Electrical A/C Compressor High Voltage Cable -P3-
- 5 - Drive Motor High Voltage Cable 1 -P4-
- 6 - Drive Motor High Voltage Cable 2 -P5-
- 7 - Drive Motor High Voltage Cable 3 -P6-
- A - 28-Pin Connector -T28b-, black



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Pin Arrangements Electric Drive Power and Control Electronics -JX1-

-T28b- (A)	Designation	-T28b- (A)	Designation
53		67	
54		68	CAN-Bus Hybrid High, to  CAN Bus Hybrid High Connection 1 (in Engine Compartment Wiring Harness)
55	Pilot line to contact 80 on connector -T28b-	69	Drive motor temperature sensor -G712-
56		70	Drive motor rotor position sensor 1 -G713-
57	Three-Phrase Current Drive -VX54-	71	Terminal 15, from Fuse Panel A -SA-, Fuse 3 (on fuse panel A) -SA3-
58	Terminal 30, from Fuse Panel A -SA-, Fuse 8 (on fuse panel A) -SA8-	72	Drive motor rotor position sensor 1 -G713-
59	Terminal 31, to  Ground Connection 1 on bulkhead	73	Drive motor rotor position sensor 1 -G713-
60		74	
61		75	CAN-Bus Hybrid Low, to  CAN Bus Hybrid Low Connection 1 (in Engine Compartment Wiring Harness)
62	Drive motor temperature sensor -G712-	76	
63		77	
64		78	
65	Three-Phrase Current Drive -VX54-	79	
66	Three-Phrase Current Drive -VX54-	80	Pilot line to contact 55 on connector -T28b-

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1.48 A/C Compressor Control Module -J842-, from Week 47/2016

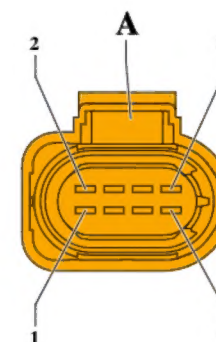
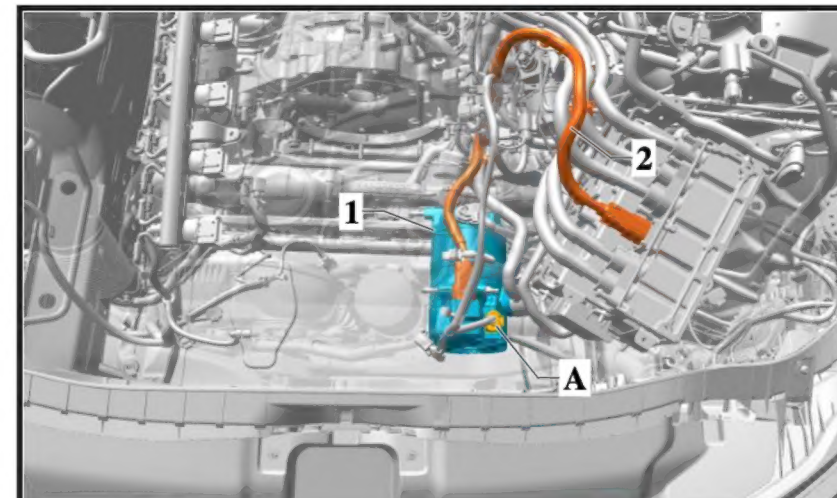
- 1 - A/C Compressor Control Module -J842-
 - with Electrical A/C Compressor -V470-
- 2 - Electrical A/C Compressor High Voltage Cable -P3-
- A - 8-Pin Connector -T8bh-, black



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Pin Arrangements A/C Compressor Control Module -J842-

-T8bh- (A)	Designation	-T8bh- (A)	Designation
1		5	Terminal 31, to  Ground Connection 1 on bulkhead
2	LIN-Bus, to  LIN-Bus Connection 8 (in main wiring harness)	6	

-T8bh- (A)	Designation	-T8bh- (A)	Designation
3	High Voltage System Maintenance Connector -TW-, Pilot Line	7	
4	High voltage heater (PTC) control module -J848-, Pilot Line	8	Terminal 30, from Fuse Panel A -SA-, Fuse 13 (on fuse panel A) -SA13-

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1.49 Three-Phrase Current Drive -VX54-, from Week 47/2016



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Component Location

Integrated in automatic transmission, front.

1 - Three-Phase Current Drive -VX54-

- ❑ with Drive motor temperature sensor -G712-, Drive motor rotor position sensor 1 -G713-, Electro-Drive Drive Motor -V141-

2 - Drive Motor High Voltage Cable 1 -P4-

3 - Drive Motor High Voltage Cable 2 -P5-

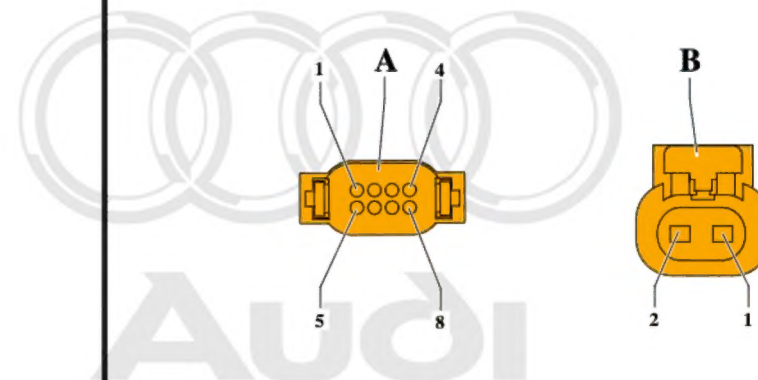
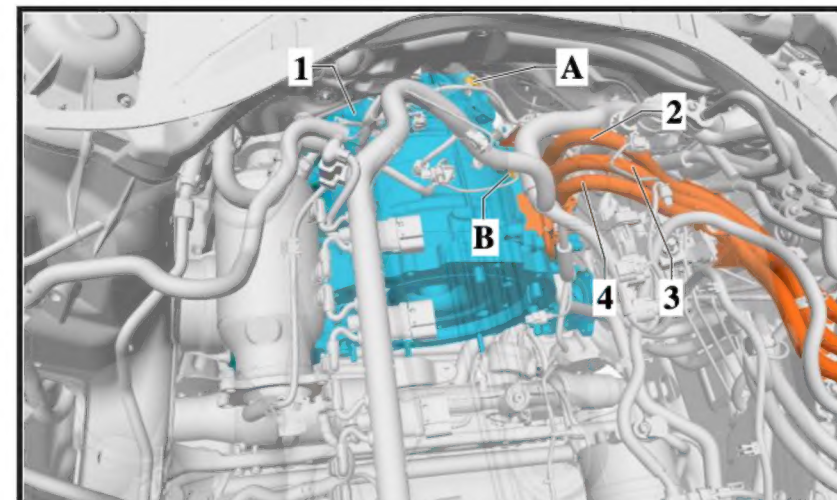
4 - Drive Motor High Voltage Cable 3 -P6-

A - 8-Pin Connector -T8bi-, black

- ❑ to Electric Drive Power and Control Electronics -JX1-

B - 2-Pin Connector -T2pm-, black

- ❑ to Electric Drive Power and Control Electronics -JX1-



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